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THE ENCYCLOPÆD BRITANNICA

FOURTEENTH EDITION

VOLUME 7 MASCUS TO EDUCATION. BURE.

AMASCUS, the name of a Sanjak and town of Syria, 57 m from Beirut and situated in 33° 30' N and 36° 18' E Its origin is unknown, and the belief that it is the oldest city in the world still inhabited has much to recommend it It is mentioned in the account of the battle of the four kings against five, in the book of Genesis (ch xiv), where Abram (Abraham) pursued the routed kings to Hobah north of

he Egyptian suzerainty over Palestine in the cus (whose name frequently appears in the ts) was capital of the province of Ubi. The the Tell el-Amarna correspondence is Di-he end of that period the overrunning of by the Khabiru and Sutu evidently changed tage and government of the country, and the Darmesek, appears in an inscription of

eached such strength that though Tiglathie whole of northern Syria, and by the fame ced the king of Egypt to send him presents are to attack Kadesh and Damascus so that as a 'buffer' between Assyria and the rising

pedition (2 Sam viii) against Damascus as sistance the city had given his enemy Hada-The Israelite possession of Syria did not last of Hadadezer named Rezon (Rasun) suca dynasty there and throughout Solomon's ant enemy to Israel (1 Ki. xi. 23 seq.).

I K1 xv 19 that Abijah, son of Rehoboam, a league with Tab-Rimmon of Damascus to ers against Israel, and that afterwards Tab-Hadad came to terms with the second suc-Baasha Asa, son of Abijah, followed his bought the aid of Syria, whereby he was en-

border fort that Baasha had erected (I Ki continued between Israel and Syria. Syria for his merchants in Samaria (1 Ki xx 34); at Aphek, when the king of Israel acted too use of a prophetic denunciation (Ki. xx. 42)

According to the Assyrian records A ally at the battle of Karkar against S seems to indicate the vassalage of Ah remains, and it was perhaps in the a he met his death in battle (I K1 X Jehoram, Naaman. the Syrian genera the prophet Elisha of leprosy (2 K In 342 Hazael assassmated Ben-H

of Damascus The states which Ben-



GENERAL VIEW OF THE CITY OF DAMASCU THE COVERED STREET WHICH IS CALLED into a coalition against the advanci volted; and Shalmaneser, king of Asand attacked Syna (841). He waste take the capital Jehu, king of Israel which Hazael afterwards revenged hi Shalmaneser was distracted by his F the borders of Israel (2 Ki x. 32)

invaded Syria Adad-nırari III c. 805-802 and Jehoush king of Is. recovered the cities that his father Ahaz of Judah was attacked by Rea Damascus, at the same time the I revolted The king of Assyria, Tiglar

to help: and, invading Syria, reduced Except for the abortive rising un nothing more of Damascus for a lor the battle of Issus, it was delivered ov the general of Alexander the Great m the wars of the succ of Ale of Ale.

Le Tem Ban s I 3 BC N h Ch aac lee e simpre o Svil was a dea by h Cr. a at A to C z u menty if Danascus been affected by great outbreak - and must be included the Hyracias took advertage of the Was gutted in 1893, and in 1912. disputes of these thiers to a hance his own kingdom. Demetrius' siderable tract of bazaars. Great (Euclicias, successor of Cypicenes, invited Polestine in SS BC, buildaroments of Oct 1925 an and retrated A. vancer Januaria in Sheckern On his dethrone. Damascus has 240 mosques, moment and republic by the Portinans Anniachus Dionysus, cis are still in use. Catholic and Prot brother, such edied him, but was sloin in paide by Haritha' number of educational institutions cliretas) the Arab Hancha yielded to Tigranes king of Armenia. are in the thin was direct out by Q Caeculus Metaling. In 63) is a resident Bruish consul an Agric wife want a Romin protocol

In the New Texament Duransons appears only in connection; have remained analtered since th with A to L. with rest of Cor. to and Gal a In An 105 under Trajon Danascus revarie a Roman provincia, c'ty. On the establi-branci of Christianity Damascus became the seat of a riship who ranked next to the patriarch of Antioch, and the great temple of Damascus was turned into a Christian church

In 535 Damascus was captured for Islam by Knalid Ibn halid. After the marder of Au the fourth caugh, his successor Moranya transferred the seat of the Caliph to (qz_*) from Mecca to Darrescus and thus commenced the great dynasty of the Omayyads whose rule extended from the Atlantic to India. Ninety years later it was supplicated by that of the Abbasids, who remayed the seat of empire to Mesopotamia, and Damascus passed through a period of unrest in which it was captured and ravaged by Egyptians, Carmathians and Seljuks in turn. The ctusaders attacked Damascus in 1126, but never succeeded in keeping a firm hold of it. It was the headquarters of Saladin in the war, with the Franks. The chief later events are the Mongolian centure in 1262 its Egypti in recepture by the Marreluke Kotez; the ferocious raid of Timur (Tamerlane) in 1399; and the conquest by the Turkish sultan Sehrn whereby it became a city of the Ottoman empire (1516). Of its more recent history one may meation the massacre of July 1860, when the Muslim population rose against the Christians burnt their quarter, and slaughtered about 3,000 adult males (See Syria)

Ser also Kineing, arum and Israel (New York, 1918): Wissen-schaftliche Veröffentlickungen des Deutsch-Turkusken Denkmalschutz-Kommunder, edit. Theodor Wiegand, Carl Wetzinger and Karl Wultungen, iv Damostus, die antike Stadt, '1921). die islamische Stadt '1921). (S. A. C.; X)

Modern City-Damascus is the chief town of the new state of Syria; 2 300 it. above sea-level, pop 188 000 (21,000 Christions, 16,000 Jews). It stands on both banks of the main channel of the Barack about 2 m from the point where it emerges from a gorge of the Antificanas to branch off eventually fanwise and brigate a wide area. Damascus stands on the north-west edge of this extensive tract of ameningly fertile ground (the Ghutch), where, intermingled with fields of wheat, bariey and maize, are orchards of apricot, fig. pemegranate, pistachio and almond, and groves of poplar and walnut, whilst vine boughs trail everywhere. Viewed from a point of vantage (as at the suburb Salimynb), the white minarets of the city bathed in sunlight rising above the mass of verdure leave an ineffaceable impression on the mind of the beholder. The ancient city, rudely rectangular is shape was huddied within a wall on the couthern bank of the Barada. The modern cry is spoon-shaped, the handle to the south whither the city has been drawn a long way on the Meccan road torraing the quarter known as the Meitim A suburb, El-Amara, has been built on the northern bank, and farther off towards the porth-west is another suburb, Süllsiyak. Damascus is supplied with water from the Baraca by an extensive system of canals and conduits. Its streets, for the most part narrow and protected overhead, are by so means clean, and the high walls which conceal private dwellings belie the augnificence to be found within Its public buildings, mosques, schools and Khaus reveal many fine examples of Arabian are. To a partial extent sheltered by bills to the north, west and south, the city has open to the east and its trying and prevalent winds. It antiers a great variation in temperature in the course of the year. In winter frost and snow are not unknown, and stamper temperatures are high but the nights are always cool. Fever, dysentary and openium due to the climatic conclitions are

... recent s n earler t mes t ity has erected a public hospital a

Antiquities .- The ground pl least, and a conflagration such a 1401 merely cleared the site for facilities for archaeological stud might have been expected. The is visible in what is left of the ci of the Great Mosque, in the Dark ably colonnaded and in an aquedi Great Mosque (or Umayvad mos of St. John Bapust, whose build Theodosius (375) and completed It occupied the site of an earlier mon (cf 2 Ki v 18) The Calip tians of their building (AD 705), before re-erecting it as a mosque pillaged by Tamerlane (1401) and In this mesque in 1905 some va scripts were discovered. The citac was built in 1219 by Mālik el-(1262) and by the Turks (16t) established an Institute of Mohi (its archaeological collection suffer in Oct 1925), and a School of A the work in glass and wood and th at reproducing the best Arabic w Synan National Museum has also

Commerce.—From its happy s much to offer to the nomad and been the market of the desert I "wine of Helbon" and its wool reputation for its Chalybonian win



THE COVERED 'STREET CALLED STR EASTERN TO THE WESTERN GATE OF 13 m. NNW. of Damascos) Its Javenal fii. 83) were a valued pr cushions were famous For cen carried far afield the reputation (tian promoted this industry but cerried off the smiths in 1401. portant now as of old but mox work, the alignee work of gold Christome) misid work ut wood Description was hard h

dustry has relived by slowly Egypt's nee he war has begun to manufacture goods previously made in Syria and many artisans from Damascus has embated thither. The textue industry suffers from foreign competition, and dyeing has declined in sympathy. Railway connection with the Hauran (1894), Berrut (1893) and Halfa (1905) has diminished its caravan trade Damascus is tinding more and more to become a centre for foreign imported goods as well as local produce, and with the development of motor transport an increase in transit trade may be expected. The shops of Damascus are famous for the wealth and variety of their goods and its streets for the mixture of races that throng them

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THE TWENTIETH CENTURY

Prior to the World War. Damascus was the headquarters of the IV Turkish Army, and after the outbreak of hostilities became the base of the Turkish and German forces operating in Palestine and on the east bank of the Suez Canal under General Liman von Sanders. On Oct τ , 1918, the city fell into the hands of the Egyptian Expeditionary Force under Lord Allenby (q v) and the Arab troops of the Emir Feisal (q v) The advance on Damascus was a purely cavalry operation, and at the city itself no resistance was made to the British and Arab troops By Sept. 30 the Australians had worked round the north; the desert column was lying to the west, and the Arab force was at the couthern outskirts of the city. Most of the Germans and Turks, after severe quarrelling, had already left

During the night of Sept 30 troops of the Australian Mounted Division and the advanced guard of Feisal's force had made their way into the city, and both claimed to be the first to set foot in Damascus. The formal entry was made at 6 a m on Oct 1 when a British detachment and part of the Arab army marched through the streets. About 7 000 Turks surrendered to the Allied forces. On Oct 3 Feisal made his official entry into Damascus, and this he did, according to ancient custom, by riding furiously through the streets with a large number of kinsmen, to the accompaniment of a feu de joie and the piercing shouts of the Arab population. After the formal occupation the Allied troops were withdrawn and an Arab administration under Feisal was set up. Sukry Pasha El Ayyubi, senior descendant of Saladin, was appointed head of the administration of the city.

Feisal and the French.-When in Nov. 1919 General Gouraud was nominated French High Commissioner for Syria, the Feisal regime in Damascus was strongly antagonistic to the French and productive of much disorder Raiding and pullaging were encouraged and public money was misappropriated. Finally, on March 7, 1920, Feisal was elected King of Syma by a so-called General Syrian Congress, while the material opposition to French influence increased and the Arab army steadily grew in numbers. Eventually matters became so serious that in July 1920 General Gourand had to issue an ultimatum Feisal delayed his reply and questioned the terms, while an Arab detachment attacked one of the advanced French posts, with the result that a French force took up its position at 'Am el Jedeida, on the road from Beirut to Damascus, two days before the delivery of Feisal's reply. As Feisal still refused to accept certain conditions, the French force advanced and, after a fierce combat at Khan Mezzalun with some 20,000 Arabs, entered Damascus. Feisal with his chief councillors

On June 20, 1921 the Syrian Confederation, consisting of the state of Aleppo, Damascus and the Alaountes, was proclaimed at Damascus and, in order to preserve and the south, the city had to the state of the south, the city had to the state of the south, the city had to the state of the south, the city had to the state of the state of the south, the city had to the state of the st

with Aleppo This was superseded later by the establishment of one capital at Damascus, and in 1925, at the wish of the inhabitants, Damascus became the capital of the Syrian State comprising the two districts of Damascus and Aleppo under a president with a French adviser as High Commissioner's delegate On April 8 and 9, 1925, the visit of Lord Balfour to Damascus was the occasion of considerable rioting, nominally as a protest



KHAN SULFIMAN PASHA. AN OLD ROOFLESS BUILDING NAMED AFTER THE GREAT SULTAN OF TURKEY WHICH WAS FORMERLY AN INN BUT IS NOW A THRIVING BAZAAB

against the Zionist declaration bearing his name, but more generally recognized as a demonstration of anti-French feeling

The Druses.—When the Druse rebellion (see DRUSES) broke out in July 1925, Damascus played an important part as the French advanced base and as the key to the general situation in Syria. The Damascenes were sympathetic to the Druses and, their discontent being aggravated by an exceptionally bad harvest a general rising was feared with serious consequences in other Syrian towns Two attempts were made by the Druses to effect a Damascene rising by attacks on the city The first was a complete failure, but the second attack of Oct 18 was a great

deal more serious. Bands of Druses entered Damascus from the south and, receiving the support of the lower elements of the population, overran certain quarters, looting and uillaging as they went. Most of the inhabitants, however, disappointed at the small numbers of the Druses, failed to take any decisive action. French troops were sent into the streets to repel the insurgents, but, as the situation became more serious, the French troops were withdrawn and the order was given to bombard the affected areas. The bombardment lasted until Oct. 20, and great damage was done, including the partial destruction of the Palais Azm, recognized as the most beautiful building in the city

This action of General Sarrail (qv), the French High Commissioner, was severely criticised, and he incurred well-mented censure for permitting the situation in Damascus to become such that a bombardment was a military necessity and for carrying out such a drastic measure without issuing either an ultimatum to the first time and provided to the foreign consuls. General Sarrail and the city of the same year. His dismissal, however, brought no peace to Damascus, and fighting continued around the city.

In Dec 1925. M. Henri de Jouvenel (q v) succeeded General Sarrail as High Commissioner for Syria and in Feb. 1926, after the resignation of Subky Bey Barakat, President of the Syrian State, a Provisional Government was set up under M Pierre Alype, with General Andréa as Military Governor of Damascus In April of the same year. M Alype was replaced by a native Provisional Head of the State in the person of Damad Ahmed Nami Bey, who governed through a Council of Ministers with French advisers. As martial law still prevailed, Damascus was excluded from the areas in which elections were subsequently held

On May 2, 1926, Damascus was again the scene of serious disturbances. A Druse band, about 200 strong, penetrated into the Meidan quarter, which was bombarded, at half an hour's notice, by French artillery and aircraft. The greater part of the Meidan quarter, which contains one-quarter of the population of Damascus, was destroyed, while 1,000 lives are said to have been lost. The value of the damage was estimated at £700,000. On this occasion the street fighting on the French side was conducted, not by French regular troops, but by Circassian and Armenian levies, who were accused of savage brutality. Even this second devastation of Damascus failed to produce the effect desired by the French.

At the end of May, type Mi de Jourenei accorded the Syrian Ir sector the right to offer an amnesty to all rebets, who should 14 down their arms in Durascus by June 15: he aboushed the Livingly of the eco Syrian pounds imposed upon the city as a result of the assurrection of Oct. 1925, and approved the pro-gramme of the National Spring Government. These conciliatory measures however, had no satisfactory result the Syrian Minis my was distinct for showing undue sympathy to the insurcerts and desaftory eighting continued in and about Damascus. ricing liter the literal of M. Ponsot as High Commissioner, the himma revolutingum a subside at the end of 1926. By this time ! e respective to re-establish road communications with Beirut, ant Damascus began to regain its commercial position on the trade mate o Iraq via the Syriza Desert.

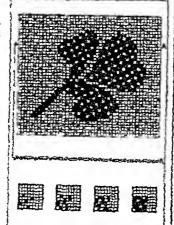
Meanwhile, the city had been placed in a strong state of detense by General Andrea, and the clearances made for this purpose were unitzed for the construction of the "Boulevard de Baghdad," a broad thoroughfare encuring the city. A comprehensive scheme er town-planning was also mangurated, including the restoration ii the bimbarded area, and plans for approved focades were prepared by M. de Lorey, Directeur de l'Institut français d'arensender et a art musulman. Provision was thereby made that the new quarter of Darrascus should not clash with its ancient surtoundings

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DAMASK, the technical term applied to certain distinct types of fabric. The term owes its origin to the ornamental silk lebrice of Damascus, fabrics which were elaborately woven in colours, sometimes with the addition of gold and other metallic threads. At the present day it denotes a linen texture richly figured in the weaving with flowers, fruit forms of animal life, and other types of ornament. "China, no doubt," says Dr Rock 'Celulogue of Textule Fabrics, Victoria and Albert Museum), was the first courtry to ornament its silken webs with a pattern. India. Persia and Syria, then Byzantine Greece followed, but at long intervals between, in China's footsteps. Stuffs so figured brought with them to the West the name 'diaspron' or diaper,

bestowed upon them at Constantinopie But about the 12th ensury the city of Damascus. even then long celebrated for its homs so far outsimpped all other places for beauty of design, that her silken textues were in demand everywhere, and thus, as often happens, traders fastened the name of damascen or damask upon every silken fabric richly wrought and curiously designed. no matter whether it came or not from Damesons

The term is perhaps now best known in reference to damask table-cloths, a species of figured cloth usually of flax or tow yarns, but sometimes made partly of cotion. The fires qualities are made of the best been yarn,



DETAILS OF A DAMASK DESIGN The pame "damask," originally given to the woven slike of Damasous, are made of the best lines yarn, day signifies a lines texture elabo-and, although the latter is of rately designed in the weaving

a brownish colour during the weaving processes, the ultimate fabric is pure white. The high lights in these cloths are obtained by long heats of warp and weft, and, as these are set at right angles, they reflect the light differently according to the angle of the rays of light; the effect changes also with the position of the electron. Subdued effects are produced by shorter floats of yarn, and sometimes by special weaves. Any subject, however issuestes, can be copied by this method of weaving, provided that capense is no object. The finest results are obtained when the su-called during damash weaves are used. These weaves are shown

under Die, and it will be seen that each weave gives a maximum float of seven threads (In some special cases a weave is used which gives a floar of nine)

The small figure here shown to illustrate a small section of a damask design is composed of the two single damask weaves, these give a maximum float of four threads or picks. No shading is shown in the design, and this for two reasons—(1) the single damask weaves do not permit of elaborate shading, although some very good effects are optamable; (2) the available space is not sufficiently large to show the method to advantage. The different single damask weaves used in the shading of these cloths appear, however, at the bottom of the figure while between these and the design proper there is an illustration of the thirty-first pick interweaving with all the 48 threads

The principal British centres for fine damasks are Belfast and Dunfermline, while the medium qualities are made in several places in Ireland in a few places in England, and in the counties of Fife, Forfar and Perth in Scotland Cotton damasks, which are made in Paisley, Glasgow, and several places in Lancashire, are used for toilet covers, table-cloths, and similar purposes They are often ornamented with colours and sent to the Indian and West Indian markets. Silk damasks for curtains and upholstery decorations are made in the silk-weaving centres

DAMASK STEEL or DAMASCUS STEEL, a steel with a pecuhar watered or streaked appearance, as seen in the blades of fine swords and other weapons of Oriental manufacture. One way of producing this appearance is to twist together strips of iron and steel of different quality and then weld them into a solid mass A similar but inferior result may be obtained by etching with acid the surface of a metal, parts of which are protected by some greasy substance in such a way as to give the watered pattern desired The art of producing damask steel has been generally practised in Oriental countries from a remote period, the most famous blades having come from Isfahan, Khorasan, and Shiraz in Persia.

DAMASUS, the name of two popes
DAMASUS I., Saint, was pope from 366 to 384 As a deacon he protested against the banishment of Pope Liberius (355), but when the emperor Constantius sent to Rome the anti-pope Felix II., Damasus, with the other clergy, rallied to his cause When Liberius returned from exile and Felix was expelled, Damasus again supported Liberius On the death of Liberius (366) he was nominated successor; but the irreconculables of the party of Liberius set up against him another deacon, Ursinus A serious conflict ensued which quickly led to rioting. The prefect of Rome recognized the claims of Damasus, and Ursinus and his supporters were expelled. The new pope also secured the sympathy of the people by his zeal in discovering the tombs of maityrs, and in adorning them with precious marbles and monumental inscriptions, The inscriptions he composed himself, in mediocre verse, full of Virgilian remuniscences In Rome he erected or embellished the church which still bears his name (S. Lorenzo in Damaso).

The West was recovering gradually from the effects of the Arian crisis, and Damasus endeavoured to eliminate from Italy and Hyria the last champions of the council of Rimini The bishops of the East, however, under the direction of St. Basil, were involved in a struggle with the emperor Valens, whose policy was favourable to the council of Runim. Damasus, to whom they appealed for help, was unable to be of much service because that episcopal group, viewed askance by St. Athanasius and his successor Peter, was incessantly combated at the papal court by the hatred of Alexandria The Eastern bishops triumphed in the end under Theodosius, at the council of Constantinople (381), in which the Western church took no part. They were invited to a council at Rome in 382, but few attended

This council had brought to Rome the learned monk Jerome, for whom Damasus showed great esteem. To him Damasus entrusted the revision of the Latin text of the Bible A short time before the pope had received a visit from the Priscillianists after their condemnation in Spain and had dismissed them Damasus died on Dec 11, 384.

His writings are printed in Migne, Patrol Lat. XIII See sho

Duchesne, Liber Pontificalis I. 212, J. Wittig, Papet Damasus I. in his struggle with the anti-pope, Honorius II; and naving (Rome, 1902) and Die Friedenspolitik des Papeles Damasus I. served the papacy as legate to France and to Florence was al-

Damasus II., pope from July 17 to Aug. 9, 1048, was the ephemeral successor of Clement II. His original name was Poppo, and he was bishop of Brixen when the emperor Henry III raised him to the papacy.

DAMBROWA, a Polish town in the province of Kielce and centre of the coal basin bearing its name and which combines with the basins of Cracow and Polish Silesia to form one of the greatest coalfields of Europe Pop (1921) 39 800 an increase of 15,700 on that of 1910. The Dambrowa basin, 200 sq km, was formerly in the Russian empire, and in 1924 produced 6,585,097 tons, about 97% of the production of 1913

DAME, properly a name of respect or a title equivalent to "lady" now surviving in English as the legal designation of the wife or widow of a baronet or knight, or of a dame of the Order of the British Empire, it is prefixed to the Christian name and surname It has also been used in modern times by certain societies or orders, e.g., the Primrose League as the name of a certain rank among the lady members, answering to the male rank of knight. The ordinary use of the word by itself is for an old woman. As meaning "mistress." i.e., teacher, "dame" was used of the female keepers of schools for young children, which have become obsolete since the advance of public elementary education. At Eton college boarding-houses kept by persons other than members of the teaching staff of the school were known as "Dames' Houses," though the head might not necessarily be a lady. As a term of address to ladies of all ranks, from the sovereign down "Madam," shortened to "ma'am," represents the French madame,

"Damsel," a young girl or maiden, now only used as a literary word, is taken from the OFr dameisele, formed from dame, and parallel with the popular dansele or doncele from the M Lat damicella or dominicella, diminutive of domina. The French damoiselle and demoiselle are later formations. The English literary form 'damosell' was another importation from France in the 15th century. In the early middle ages damoiseau, M. Lat. domicellus, domeicele, damoiselle, domicella, were used as titles of honour for the unmarried sons and daughters of royal persons and lords (seigneurs). Later the damoiseau (in the south donzel, in Béara domengar) was specifically a young man of gentle birth who aspired to knighthood equivalent to écuyer, esquire or valet (q v)

DAME'S VIOLET, the English name for Hesperis materials, a herbaceous plant belonging to the family Cruciferae, and closely alhed to the wallflower and stock. It has an erect, stout, leafy stem, 2 to 3 ft high with irregularly toothed, short-stalked leaves and white or lilac flowers, $\frac{3}{4}$ m. across, which give off a scent in the evening. The slender pods are constricted between the seeds. The plant is a native of Europe and temperate Asia and is found in Great Britain and in the eastern United States and Canada as an escape from gardens, in meadows and plantations.

DAMGHAN, town, Persia, in 36° 10′ N 54° 20′ E, 216 m from Tehran, on the high road to Khurasan; elevation 3,737 feet Pop 10,000. Damghan was an important city in the middle ages, but there are few remains of that period. The remains of Hecatompylos extend from Frat, 16 m S. to Gúsheh, 20 m W Damghan was destroyed by the Afghans in 1723 Fath Ali Shah was born here in 1772. Damghan is famous for the excellent quality of its almonds

DAMIANI, PIETRO, SAINT (c 1007-1072), celebrated ecclesisstic, was born at Ravenna, and after some years of teaching about 1035 entered the hermitage of Fonte Avellana, near Gubbio, where he became superior some eight years later. He entered into communication with the emperor Henry III., addressed to Pope Leo IX in 1040 his Liber Gomorrhianus denouncing the vices of the clergy, and soon became associated with Hildebrand in the work of reform. As a trusted counsellor of successive popes he was made cardinal bishop of Ostia in 1057, and presided over a council at Milan in 1050. He assisted Alexander II

in his struggle with the anti-pope, Honorius II; and having served the papacy as legate to France and to Florence was allowed to resign his bishopric in 1067. After a period of retirement at Fonte Avellana, he proceeded in 1069 as papal legate to Germany, and persuaded the emperor Henry IV to give up his intention of divorcing his wife Bertha. He died at Faenza on Feb. 22, 1072. Damiani was a determined foe of simony and clerical marriage, and a vigorous controversialist.

His works published by Cardinal Cajetan, 4 vols (Rome, 1606–15) are reprinted in Migne, Pairol Lat. v 144 and 145. See F. Neukirch Das Leben des Peter Damiani (Gottingen, 1875), Kleinermanns, Der heilige Petrus Damiani (Steyl, 1882), R. Biron, St. Pierre Damien (1908), J. A. Endres, Petrus Damiani und die Welthche Wissenschaft (Munster, 1910).

DAMIEN, FATHER, the name in religion of Joseph DE VEUSTER (1840-1889), Belgian missionary, born at Tremeloo, near Louvain, on Jan. 3, 1840. In 1858 he joined the Society of the Sacred Heart of Jesus and Mary (also known as the Picpus Congregation) and while still in minor orders, in 1803 went as a missionary to the Pacific islands, taking the place of his brother who had been prevented by illness. On reaching Honolulu he was ordained priest in 1864 Struck with the sad condition of the lepers, whom the Hawaiian Government deported to Molokai island, in 1873 he volunteered to take spiritual charge of the settlement. Besides attending to the spiritual needs of the lepers, he managed, by the labour of his own hands and by appeals to the Hawaiian Government, to improve the water-supply, the dwellings. and the victualling of the settlement, and after five years received assistance from other resident priests. He succumbed to leprosy on April 15, 1889 Some ill-considered imputations upon Father Damien by a Presbyterian minister produced a memorable tract by Robert Louis Stevenson (An Open Letter to the Rev. Dr. Hyde, ISQO)

See Life and Letters of Fr Damien, ed. by his brother, Fr Pamphile (London, 1889) and M. Quinlan, Damien of Molokai (London, 1909), which reproduces Stevenson's letter.

DAMIENS, ROBERT FRANÇOIS (1715-1757), a Frenchman who made an attempt on the life of Louis XV on Jan. 5, 1757. As the king was entering his carriage, he rushed forward and stabbed him with a knife, inflicting only a slight wound. His mind seems to have been unhinged by the ecclesiastical controversies of the moment. He was condemned as a regicide, and sentenced to be torn in pieces by horses in the Place de Grève. Betore being put to death he was barbarously tortured.

See Pièces originales et procédures du procès fait à Robert François Damiens (Paris, 1757).

DAMIETTA, a town of Lower Egypt, on the eastern (Damietta or Phatmitic) branch of the Nile, a few miles above its mouth and 125m N.N.E. of Cairo by rail. Pop. (1917) 30,984. The town is built on the east bank of the river between it and Lake Menzala. Though ill-built and partly ruinous, the town possesses some fine mosques, with lofty minarets, public baths and busy bazaars. Along the river-front are many substantial houses with terraces and steps leading to the water. Their wooden lattices of saw-work are very graceful. Once the third town in Egypt, it enjoys now little more than a coasting trade, and ships of over 6ft, draught must anchor in the offing.

Damietta is a Levantine corruption of the Coptic name Tamiati, Arabic Dumyat. The original town was 4m nearer the sea than the modern city Under the Saracens it had great wealth and commerce, and, as the eastern bulwark of Egypt, was frequently attacked by the crusaders. In June 1249, Louis IX of France occupied Damietta without opposition, but being defeated near Mansura in the February following, and compelled (April 6) to surrender himself prisoner, Damietta was restored to the Muslims as part of the ransom exacted To prevent further attacks from the sea the Mameluke sultan Bibars blocked up the Phatnitic mouth of the Nile (about 1260), razed old Damietta to the ground, and transferred the inhabitants to the site of the modern town Damietta gives its name to dimity, a kind of striped cloth, for which the place was at one time famous. Cotton and silk goods are still manufactured here and there is some trade in rice and salted fish.

this work he wrote a commentary on the Minhin at-Talbin of creary in alphanesical order of our animals mentioned in the Konne the traditions and the poetica, and proverbial interature of the Arair.

The use of the animan in medicine, their rawfulness or unlawnumers as food, their position in folk-lore are the main subjects treated while occasionally long irrelevant sections on political nutury are introduced.

Several editions have been made at various times of extracts. among them the poetical one by Suyūti (qv.), which was translated into Latin by A. Ecchelensis (1657). Bocharius in his Historican (1963) used Damiri's work. There is a translation of the whole into English by Lieutenant-Colonel Jayakar (Bombay, 1000-1908).

DAMJANICH, JANOS (1304-1849), Hungarian soldier. was born at Stass in the Banst. On the outbreak of the Hungarian war of independence he was promoted to be a major of the third Honyed regiment at Szeged, for although he was an orthodox Serb he was from the first a devoted adherent of the Magyar Liberals. At the beginning of 1349 he was appointed commander of the 3rd army corps in the middle Theiss on account of his reputation for ability and valour. He fought battle after battle so that after the hattle of Isaszeg Kossuth, at the ensuing review it Godolo, expressed the sentiments of the whole nation when be doffed his hat as Damjanich's hattahons passed by Always a hery democrat. Damjanich uncompromisingly supported the exremist views of Kossuth, and was appointed commander of one of the three divisions which under Görgei, entered Vácz in April 1849 After the catastrophe of Vilagos Damjanich surrendered to the Russians, by whom he was handed over to the Austrians, who shot him in the market place of Arad a few days later

See Oden Hemvay, Life of János Damjonich (Budapest, 1904)

DAMMAR or DAMMER, a resic or rather series of resins, obtained from various conferous trees of the genus Agathis (Dammura) East Indian dummar or cat's eye resin is the produce of Against Dammara, which grows in Java, Sumatra, Borneo and other eastern islands and sometimes actains a height of 80-rooft, The resin pozes in large quantities from the tree in a soft viscous state, with a highly aromatic odour, which however, it loses as it hardens by exposure. The resul is much esteemed in oriental communities for incense-burning. Dammer is imported into England by way of Singapore; and as found in British markets it is a bard, transparent, brittle, straw-coloured resin, destitute of odour. It is readily soluble in ether, benzol and chloroform, and with oil of turpemine it forms a fine transparent variesh which dries clear, smooth and hard. The allied kauri gum, or cammar of New Zealand (Australian dammar), is produced by Agathis australis, or kami-pine, the wood of which is used for wood paving Much of the New Icaland resin is found fossil in circumstances analogous to the conditions under which the fossil copal of Zanzıbar is obtained. Dammar is besides a generic Indian name for various other resins, which, however, are little known in western commerce. Of these the principal are black dammar, yielded by Conoriam strictem (family Bursemeese) and white dammar, Indian repai, or pince varnish, the produce of Fateric indica (family Dipternoarpaceae). Sai dammae is chiambil from Mories robusto; Symplector micronica is the source of rock denomer and other विकासिक प्रतिक्रिये १४ में - अकिएन क्षेत्र के किए किए मिल्लिए की पाननी एक रेजी कर है है के उन SE VINCES EFFORT THEM

DAMMARTIN, a craft town of I muce in the department The state of the s

DAMIRI, the source times of Kamar up-Dix Muhamman, count of Dammertin, made himself master of the town in the is Most ro-Dealed 1344-1425. Areten writer on canon toth century. His dynasty was replaced by another family in Law and Law herer) he belonged to one of two towns called the rith century. Remaid I (Renaud), count of Dammartin (d Dur to Declar's and spent his life in Egypt Of the Shaft ne | 12271, who was one of the coalition crushed by Philip Augustus school of and he became professor of transion in the Rabnitys at the battle of Bouvines (1214), left two co-heiresses, of whom at Carre, and also at the most, as el-Ashar in connection with the elder Mand (Matilda or Mahaut), married Philip Hurepel, son of Philip Augustus, and the second Alix, married Jean de Namari (20) Hols, however, better known in the history of Trie, in whose bne the countship was reunited after the death of blescaure for his Lige of Animals (Hayat al-Hayanan), which Philip Hurepel's son Alberic. In the 15th century the countship was acquired by Antoine de Chabannes (d 1488) by his marriage with Marguerite, heiress of Reynald V of Nanteuil-Aci and Marie of Dammartin Antoine de Chabannes fought under the standard of Joan of Arc, became a leader of the Ecorcheurs, took part in the war of the public weal against Louis XI., and then fought for him against the Burgundians The collegiate church at Dammartin was founded by him in 1480, and his tomb and effigy are in the chancel. His son, Jean de Chabannes, left three heiresses, of whom the second left a daughter who brought the countship to Philippe de Boulainvilhers by whose heirs it was sold in 1554 to the dukes of Montmorency. In 1632 the countship was confiscated by Louis XIII and bestowed on the princes of

DAMME. a decayed city of Belgium (pop. 1,100), 4½ m NE of Bruges, once so important as a commercial port that it had its own mantime law, known as Drost maritime de Damme. It is on the canal from Bruges to Sluys (Ecluse), but in the middle ages a navigable channel called the Zwvn connected it with the North sea; the battle of Sluys, in which Edward III destroyed the French firet, was fought in 1340 at its mouth. In 1490 a treaty was signed at Damme between the people of Bruges and the archduke Maximilian, and very soon after the channel became completely silted up, and the foreign merchant gilds or "nations" removed to Antwerp The marriage of Charles the Bold and Margaret of York, sister of Edward IV, was celebrated at Damme on July 2, 1468 The town, although long neglected, preserves some remains of its former prosperity. The tower of Notre Dame, dating from 1180, is a landmark across the dunes, and the church, although a shell, ments inspection; out of a portion of the ancient markets a kôtel-de-ville has been constructed, and in the hospital of St. Jean are a few pictures; and in the Place is a statue (1860) to Jacob Van Maerlant, the Flemish poet, who was clerk to the magistrates of Damme in the late 13th century

DAMOCLES, one of the courtiers of the elder Dionysius of Syracuse. When he spoke in extravagant terms of the happiness of his sovereign, Dionysius is said to have invited him to a sumptuous banquet, at which he found himself seated under a naked sword suspended by a single hair (Cicero Tusc. v. 21. Horace Odes, ini 1, 17; Persius in 40).

DAMOH, a town and district of British India, in the Jubbulpore division of the Central Provinces The town of Damoh is situated on the railway from Katni to Bina, a branch of the G.I.P. railway, 48 m E of Saugor It has small local industries and a large cattle market, and is a distributing and collecting centre for the district. Being situated below rocky hills at is decidedly hot. In pre-railway days its population was about 3,000, which had increased to 17,000 in 1911 In 1921, owing to the ravages of influenza, the population had fallen to 15,296 Damoh was looted by mutineers from Jubbulpore in 1857 and the district office was burnt.

The DISTRICT OF DAMOH is one of the smallest in the Central Provinces, having an area of 2,818 5q m. and a population of 287,-126. It is one of the Vindhyan districts and on the north and north-east borders Bundelkhand. It is drained by the Sonar and Bearms rivers which flow northwards into the Ken, and thus eventually reach the Jumna. The district is mainly wheat producing, but its agriculture is hable to severe vicissitudes of drought and excessive rain, and its population and prosperity have fluctu ated greatly. The central plain is such and fertile but the areas to book the worth and south are hilly and jumply. Its people, been taken. Dyeing weating pottery and the manufacture or bell n etal utens I are the chief industries. Cattle slaughle ing for the export of or ea meat bones, hides horns and hoofs has been established near Damoh, the old and infirm cattle from long distances being brought in for slaughtering. Except for a little iron ore and sandstone for building, there is no mineral wealth in the district. There are notable temples at Bandakpur and Kundalpur and there are old Hindu and Jain remains at Nohta.

DAMON AND PHINTIAS (not Pythias), Syracusan Pythagoreans, devoted friends Condemned to death by Dionysius of Syracuse, Phintias begged a short respite that he might arrange his affairs Damon pledged his life for the return of his friend; and Phintias returned in time The tyrant released both and begged to be admitted to their friendship (Diod. Sic. x 4' Cicero, De Off. iii. 45; cp Hyginus, fab 257)

DAMOPHON, a Greek sculptor of Messene, who executed many statues for the people of Messene, Megalopolis, Aegium, and other cities of Peloponnesus. Considerable fragments, including three colossal heads from a group by him representing Demeter, Persephone, Arternis, and the giant Anytus, have been found on the site of Lycosura in Arcadia, where there was a temple of the goddess called "The Mistress" They are preserved in part in the museum at Athens and partly on the spot Hence there arose controversy as to the date of the artist, who was assigned to various periods, from the 4th century BC to the 2nd AD G. Dickins, however, by the help of inscriptions proved the date to be the 2nd century BC

See G Dickins, Annual of the British School at Athens (xu and xm)

DAMP, vapour or mist, and hence moisture. In the vocabulary of coal-nuners "firedamp" is marsh gas, which, when mixed with air and exploded produces "choke damp" "after damp" or "suffocating damp" (carbon dioxide). "Black damp" consists of accumulations of irrespirable gases, mostly nitrogen, which cause the lights to burn dimly, and the term "white damp" is sometimes applied to carbon monoxide. As a verb, the word means to stifle or check, hence damped vibrations or oscillatious are those which have been reduced or stopped, instead of being allowed to die out naturally, the "dampers" of the piano are small pieces of felt-covered wood which fall upon the strings and stop their vibrations as the keys rise; and the "damper" of a chimney or flue, by restricting the draught, lessens the rate of combustion

DAMPIER, WILLIAM (1652-1715), English buccaneer, navigator and hydrographer, was born at East Coker, Somersetshire in 1652. Having early become an orphan, he was placed with the master of a ship at Weymouth, in which he made a voyage to Newfoundland. On his return he sailed to Bantam in the East Indies He served in 1673 in the Dutch War under Sir Edward Sprague, and was present at two engagements (May 28. June 4); but then fell sick and was put ashore. In 1674 he became an under-manager of a Jamaica estate, but continued only a short time in this situation. He afterwards engaged in the coasting trade, and thus acquired an accurate knowledge of all the ports and bays of the Island. He made two voyages to the Bay of Campeachy (1675-76), and remained for some time with the logwood-cutters, varying this occupation with buccaneering. In 1678 he returned to England, again visiting Jamaica in 1679 and joining a party of buccaneers, with whom he crossed the Isthmus of Darien, spent the year 1680 on the Peruvian coast, and sacking, plundering and burging, made his way down to Juan Fernandez island. After serving with another privateering expedition in the Spanish Main, he went to Virginia and engaged with a captain named Cook for a privateering voyage against the Spaniards in the South Seas. They sailed in Aug. 1683, touched at the Gumea coast, and then proceeded round Cape Horn into the Pacific. Having touched at Juan Fernandez, they made the coast of South America, cruising along Chile and Peru. They took some prizes, and with these they proceeded to the Galapagos islands and to Mexico, falling in with the latter near Cape Blanco. While they lay here Captain Cook died, and the command devolved on Captain Davis, who, with several other pirate vessels. English and French, raided the west

American shores for hinext ear attacking Guayaquil Puebla No E, e c At last Dampier leaving Davis, went on board Swan's ship, and proceeded with him along the northern parts of Mexico as far as southern California. Swan then proposed as the expedition met with "bad success" on the Mexican coast to run across the Pacific and return by the East Indies They started from Cape Corrientes on March 31, 1686, and reached Guam in the Ladrones on May 20, the men, having come almost to an end of their rations, had decided to kill and eat their leaders next, beginning with the 'lusty and fleshy' Swan After six months' drunkenness and debauchery in the Philippines, the majority of the crew, including Dampier, left Swan and thirty-six others behind in Mindanao, crused (1687-1688) from Manila to Pulo Condore, from the latter to China and from China to the Spice Islands and New Holland (the Australian mainland) In March 1688 they were off Sumatra, and in May off the Nicobars, where Dampier was marooned (at his own request, as he declares, for the purpose of establishing a trade in ambergus) with two other Englishmen, a Portuguese and some Malays He and his companions contrived to navigate a canoe to Achin in Sumatra, but the fatigues and distress of the voyage proved fatal to several and nearly carried off Dampier himself. After making several voyages to different places of the East Indies (Tongking, Madras, etc.), he acted for some time, and apparently somewhat unwillingly, as gunner to the English fort of Benkulen. Thence he ultimately contrived to return to England in 1691.

In 1699 he was sent out by the English Admiralty in command of the "Roebuck," especially designed for discovery in and around Austraba He sailed from the Downs on Jan 14, with twenty months' provisions, touched at the Canaries, Cape Verdes and Bahia, and ran from Brazil round the Cape of Good Hope direct to Australia, whose west coast he reached on July 26, in about 26° S Anchoring in Shark's Bay, he began a careful exploration of the neighbouring shore-lands, but found no good harbour or estuary, no fresh water or provisions. In September, accordingly, be left Australia, recruited and refitted at Timor and thence made for New Guinea, where he arrived on Dec. 3 By sailing along to its easternmost extremity, he discovered that it was terminated by an island, which he named New Britain (now Neu Pommern). whose north, south and east coasts he surveyed That St. George's bay was really St. George's channel, dividing the island into two, was not perceived by Dampier; it was the discovery of his successor, Philip Carteret Nor did Dampier visit the west coast of New Britain or realize its small extent on that side. He was prevented from prosecuting his discoveries by the discontent of his men and the state of his ship. In May 1700 he was again at Timor, and thence he proceeded homeward by Batavia (July 4-Oct. 17) and the Cape of Good Hope. In February 1701 he arrived off Ascension island, when the vessel foundered (Feb. 21-24), the crew reaching land and staying in the island tell April 3, when they were conveyed to England by some East Indiamen and warships bound for home. In 1705-1707 Dampier commanded two Govemment privateers on an expedition to the South Seas with grievous unsuccess, better fortune attended hun on his last voyage, as pilot to Woodes Rogers in the circumnavigation of 1708-1711 On the former venture Alexander Selkirk, the master of one of the vessels, was marooned at Juan Fernandez; on the latter Selkirk was rescued and a profit of nearly £200,000 was made. But four years before the prize-money was paid Dampier died (March 1715) in St. Stephen's parish, Coleman street, London Dampier's accounts of his voyages are famous. He had a genius for observation, especially of the scientific phenomena affecting a seaman's life; his style is usually admirable—easy, clear and manly. His knowledge of natural history, though not scientific, appears surprisingly accurate and trustworthy. (C. R. B.)

See Dampier's New Voyage Round the World (1697); his Voyages and Descriptions (1699), a work supplementary to the New Voyage; his Voyages to New Holland in . . . 1699 (1703, 1709); Dampier's Voyages (ed. J. Maseñeld, 1906); W. C. Russell, William Dampier ("English Men of Action," 1889); also Funnell's Narrative of the Voyage of 1703–1707; Dampier's Vindication of his Voyage (1707), Welde's Auswer to Captain Dampier's Vindication; Woodes Rogets. Crusing Voyage Round the World (1712).

DAMROSCH, LEOPOLD 1832-1555) German-American nur cian and conducter, here in Posen Pressio. Oct oz 1831 In each are a physician, he became hunzertmeister at Weithar then conductor of the Patharmonic Society at Breshut, he went to America in concusion in the Metropolitan Opera House and founded the Orationa Society, New York 1874, the New York

dysupacing Secrety, 1878, etc.

His sun, Wester Johannes Demposch (1865-., American marchen and conductor was born at Breslan, Germany, Jan 30. 1452 He was to America in 15; t. and ten years later began his career as compacter in Newark New Jersey. On the death of his father in 1797 he was appointed conductor of the Metropolitan ! Open, Harry the New York Symphony Society and the Oracorio (wery In 1994 he rounded the Damrosch Opera Company for noducing Wegner and in 1896 produced Wagner's Parafel in ontert form for the first time in the United States. In 1903 he was appropried director of the New York Symphony Orchestra, remaining tenductor up to Feb 1927. He was then appointed ctusical adviser to the National Broadcasting Company informal ectures on Wagner with music having developed into lecture rechals over the radio. His compositions include The Scarlet Letter 1394): Cyran (1913); and music for Euripides' Media, Iphigeneral and a Berkeley, 1915; and Sophocles' Electra (1917). He wrote an autobiography, My Musical Lite (1923).

Another son, FRANK HEINO DAMROSCH, Was born at Breslau, June 22 1859 He became in 1905 director of the Institute of Musicia Art New York sity and wrote a Popular Method of Sight Singing and Some Escenticls in the Tecching of Music

DAMS. From immemoral times dams have been constructed or earth and misorry for the purpose of forming reservours for the storage of water to ensure regular supplies to communities for durestic purposes and for irrigation. There are records of a huge earther dars on the Tigris and a large masonry dam on the river Now, built almost in prehistoric times which remained in service or meredibly long periods, and the Romans built numerous masove masonry dams in Italy and northern Africa. All the early masonry dams were characterized by excessive width of base u ually three to four times the height.

The production of hydro-electric energy and the application of irrigation on a large scale are two forms of development which have expanded very rapidly in the 20th century in countries having the reasure conditions and resources and in many cases have involved enormously greater storage of water than that required for even the largest towns. The progress in scientific design and in magnitude of dam structures has been correspondingly extenive, and new types of structure have been introduced to meet the call for greater economy in a class of work which is seldom

Types of Dams.—The principal types are (a) earth dams, (b) presonry or concrete gravity dams, (c) rock-fill dams, (d) single horizontal arch. (e) multiple buttress dams, (f) large river dams,

While types (a) and (b) have been used from antiquity, the where are products of the 19th and 20th centuries

Earth Dams.—Earth dams are largely used on account of their primagence and cheapness and convenience of construction where suitable material is available in the vicinity. Security depeads on the construction being adequately watertight to prevent strucing away of any of the earth by water passing through the dum, and on the installation of a spillway and spillway channel isomed in masonry concrete or rock sufficient to pass the maxiwan floor without allowing any water to pass over the top of the earth bank. Water possing over the top would form ruts on to the sine with a would receive in the ca breach. Pas-Fig. 1. The property of the prothe contains the general size of the relation in the meable stratum to me ac it brain militarile acte, per which has been

struction. A relatively thin watertight core wall of concrete or reinforced concrete is frequently used now as being practicable for most sites and quicker to construct than a pudole wail

The slopes of the embankment vary according to the height of the dam and the nature of the material Generally the slope next the water is made rather flat frequently from 1.22 to 1 32 while the outer stope is somewhat steeper 1 3 to 1.3 In high

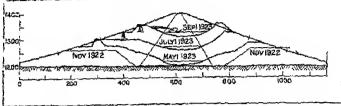


FIG. 1 - CROSS-SECTION OF THE DAVIS BRIDGE DAM, YERMONT

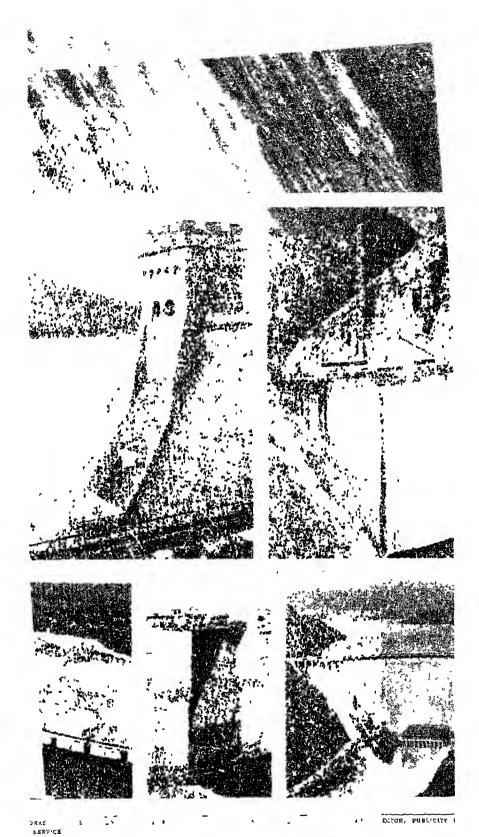
dams the slopes in the lower part are flattened out still more as compared with the upper part and in all cases the water slope must be protected by stone or concrete paying or beaching sufficiently massive to withstand wave action and prevent the earth of the embankment from being disturbed

The trend of development in America for the construction of large earth dams is towards the attainment of watertightness by the formation of a wide hearting of fine material bound with fine thry and silt separated and washed into the centre by hydraunc slucing from the earth as dumped in banks along the upper and lower sides of the dam. Fig. 1 shows a cross-section of the Davis Bridge dam in Vermont 200 ft high, with an earthworks volume of 1.000 000 cu yd, which was constructed in less than two years by this method.

Rock-fill Dams.-A rock-fill dam depends for its stability on an embankment of tipped rock material and for its watertightness on a skin of concrete or reinforced concrete laid on the handbuilt water face and carried down in the form of a vertical cut-off wall to an impervious stratum. Lack of suitable earth material and excessive cost of concrete lead to consideration of the rockfill type of dam. The embankment is usually formed with rock of all sizes as blasted from the quarry, the outer face being roughly built to a plain surface with large blocks and the inner face more carefully and solidly built to a uniform surface and formed with grooves or keyways to furnish a grip for the concrete For important dams, special dramage arrangements are made for catching up at the back of the skin any water which may percolate through it, and leading it by special drains through to the downstream side so as to obviate risk of scour under the dam. The water face is made steep (1.1 or steeper) to minimize the quantity of skin concrete, the outer face being generally somewhat flatter, about 4 3.

The largest dam of this type yet constructed is the Dix niver dam in Kentucky, U.S.A., built 1923-25. This has a height of 275 ft. and a volume of rock-fill of 1 747 000 cubic yards. The upstream slope varies from 1 1 at the top to 1 2 1 at the bottom Downstream, the slopes are 1'1 at top and 1.4 t at the bottom A thick layer on the upstream face was hand-built with large stones, while the rest of the material was side-tipped from wagons The watertight skin of reinforced concrete varies in thickness from 8 in. at the top to 18 in at the bottom

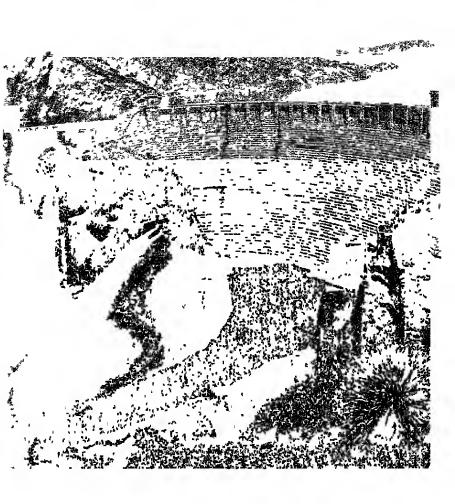
Gravity Dams.—Though dams of massive masonry have beer used for thousands of years it was not till the 19th century that a proper scientific basis for design was developed by Prof Ranking and others so that the width could be reduced from three to four times the height to something less than the height. The tendency in gravity dams is to use the simple triangular form for even the highest dam and to use concrete to the exclusion of masonry. The triangular form gives a uniform stability condition at any hore zontal section, and the maximum stresses in the material are directly proportional to the depth below TWL. Assuming . usual inclination of the waterface, say 1'26, and concrete o normal density, the necessary inclination of the outer face wil Aft with the first of the standard material is depend on the amount of upward water pressure on the base. I will be the standard pressure if the proper configuration of the defective drainage arrangements upward pressure in

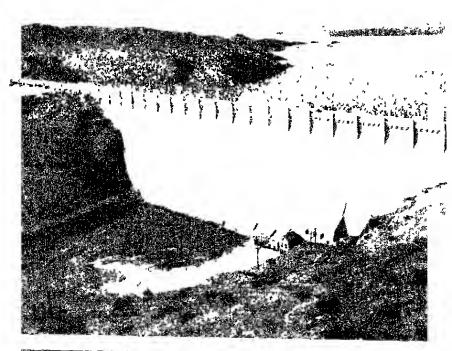


GRAVITY AND HORIZONTAL ARCH DAMS

kshire, England, masonry spillways iam Derwent valley, England I arch dam during construction

- 4 Side view of horizontal arch dam, Pretoria, Sou
- 5 Sluice gate showing power holst. N 'e dam As
- 6 But desed up ways a sides gravity dam Ca H



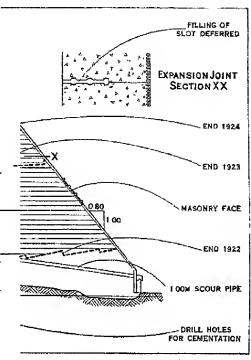


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WATER SUPPLY DAMS FOR IRRIGATION PROJECTS

t cam, Salt Piver irrigation project, Arizona. Herizontal arch of storage dam showing spillways at either side and discharge at these of sear 15 "t his narrow go go, each end of dam is tred by attera ook abulments. Is u ed to nat rail of a c obe

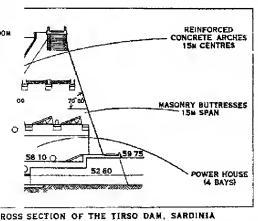
2 Elephant Butts dam, Rio Grand orete gravity type of ca outlet a base Co a heaviest, tapering width sions are determined by amount ter slope of about 0.65 x will suffice. If the xis without drainage arrangements and is dean allowance of upward water pressure on the on the base varying from full-head at the the full head at the inner face to zero at the outside. The slope of the waterface is I 20 ter slope will require to be about 0 80 I. If, in 0 80 I. The cross section also indicates the control of the cross section also indicates the control of the cross section also indicates the cross section also indicate essary to allow for heavy ice pressure at the gneiss applied on the outer slope which ha ill greater slope, up to 0 85:1, will be required ' ensure that the resultant will pass within the



S SECTION OF BARBERINE DAM, SWITZERLAND

at there will be no tension on the concrete, and sures at inner and outer toes when the slope is thtly less than that produced by a column of height as the wall. If, therefore, the compresput at the moderate value of 400 lb. per sq in ight of the triangular gravity dam will be over depth of concrete produces a stress of about ich)

tion requires a rich concrete mixture next the the bottom to ensure watertightness and also naximum stress at the inner and outer edges near



se of high dams. The proportion of cement to nay vary from 4 cwt per cuyd for the body wt or more for the places of maximum water

lam in Switzerland, completed 1925, and shown fig 2 illustrates the application of the triangular th excellent arrangements for sealing the base hrough drill holes, and for providing for exeither by reinforced flat slabs or by arche kage in the upper part. The dam is of concrete struction a spillway section can readily be ying from 250 to 300 kg of cement per cum i flat slabs also on the outer face formed

and is subject to severe temperature variation The greatest dam of this type yet projec dam of the Los Angeles flood control pro a maximum height of 438 ft a base widt contain over 3½ million cu yd. of concrete capacity of 8 000 million cu ft would not b

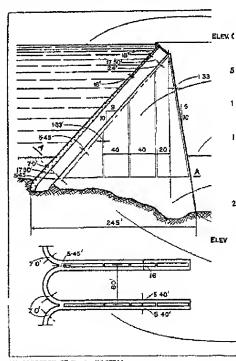
Horizontal Arch Dams.—The horizont only for narrow gorges with sound rock at great thrust from the abutments The w horizontal plane being constant the appropr plane will be a segment of a cylinder of uni radius of the extrados is constant at all dep required will be directly proportional to the vertical section will then be of triangular for face is vertical the angle of the outer slo radius and the working compressive strethe formula

$$\tan \alpha = \frac{0.437}{2}$$

where r = radius of extrados in feet c=average compressive stress in lt The value of c for actual dams is usually be

per sq in and should depend on the qua

Increased economy in concrete can be ob



BY COURTESY OF F. A NOETZLE PLAN OF LAKE PLEASANT (ARIZ) MUL ING ABOVE, SIDE ELEVATION OF HIGHEST BU SECTION THROUGH THE ARCHES AND HOLLOW BU

constant angle system of construction whe arch increases from the bottom of the dan ance with the varying width of the gorge type, constructed in 1928, is the Pacoima d county flood control project with a maxim thickness varying irregularly from 8 ft at the bottom and radius of the water face v

the top to about 200 ft at the bottom

Multiple Buttress Dams.—In multiple water load may be supported and transfeeither by reinforced flat slabs or by arche

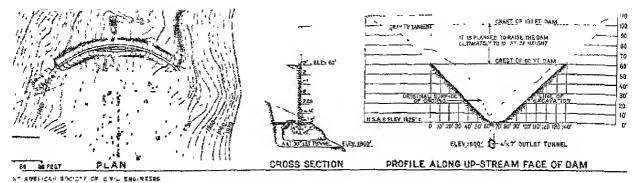


FIG 5 -- PLAY PROFILE AND CROSS-SECTION OF THE EXPERIMENTAL DAM AT STEVENSON CREEK

mpany is of this type and about 1 000 ft. long and 75 certies a single-line railway. The buttresses, spaced res are of plain concrete from 16 in to 44 in thick 7 from 16 in to 47 in in thickness and are heavily simple beams to support the water pressure. Flat a uneconomical type of construction for support of pressures as compared with arches and entail a I buttresses with close spacing the practicable maxicour so reet

arch dams the buttress spacing may be from 15 to ing on the general height of the dam. The highest dam constructed in Europe to 1928 is the Tirso ma The buttresses spaced at 50 ft centres, are of courses sloped at the outer face to suit the direction pressure and are designed to be independently stable r the maximum loadings transmitted to them by the arches are of concrete, nearly semi-circular, lightly r temperature and shortening stresses, and have a ing from 20 m. at top to 5½ ft. at bottom

movides storage for the triple purposes of power rigation and river regulation, the power house being ne spaces between the buttresses

dam of this type constructed in the United States easant dam in Arizona which has a maximum height trches and bustresses are of reinforced concrete with entre spacing of 60 ft and the buttresses have an this of 15 ft. but are of cellular construction with Vertical and horizontal sections of this dam are

as. Special circumstances arise in regard to dams s, whether installed for purposes for irrigation or for a of hydro-electric power. It is generally necessary thin close limits the flood and backing up height n, so that provision must be made for passing very of flood water. The circumstances are accentuated part of the wet season flow of a river carrying much stored to give a regulated supply during the dry all such cases movable openings are necessary on a surate with the food or maximum flow conditions se regulation is essential a series of large rectangular Steary roller type operated by machinery is most ed. The Aswari dam on the Nile (Plate I. fig. 5), er with wroter (1000 - 1000 and a in height there are uniquely attended to a most of appacity her triale fire. Was a second of the scharged क्षा करें १**५**० के स्थान हो अनुदार तरक क्षा den a Mucu Short on the I black fiver, Estates in the larger manner and and the world to yere-east with the control of the control 218 1 21 80 " a scale aur lett to gain a flood Toller can be charactered up to tou, suc hip TO CHANGE AND A PLANT

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motion Brook main dam of the Newfoundland Power | river bed | The gates are separated by piers, usually of concrete which must be capable of supporting the maximum water load from a panel of the barrage as well as the erections and machinery for operating the gates. The gates are fully opened to pass the first part of the wet season flood and scour the reservoir bed clean and closed in time to conserve the later and cleaner part of the flow. The V2al river barrage is an interesting example of this type of dam, on a river whose annual silt burden is estimated at 1,200,000 tons and maximum flood flow 187 000 cusecs

The Olive Bridge dam, forming the principal structure in the Asnokan reservoir of the New York City Catskill water supply system, is an interesting type of modern masonry construction It is founded on solid ledge-rock and was built of cyclopean concrete faced with smoothly finished concrete blocks. At each end the masonry section is flanked with earthen dikes built of selected earth which was spread in thin layers and thoroughly compacted by rolling. The reservoir formed by this dam has a water surface of 8,180 ac, giving an available capacity to the City of New York of 128,000 million gallons

City of New York of 128,000 million gamous

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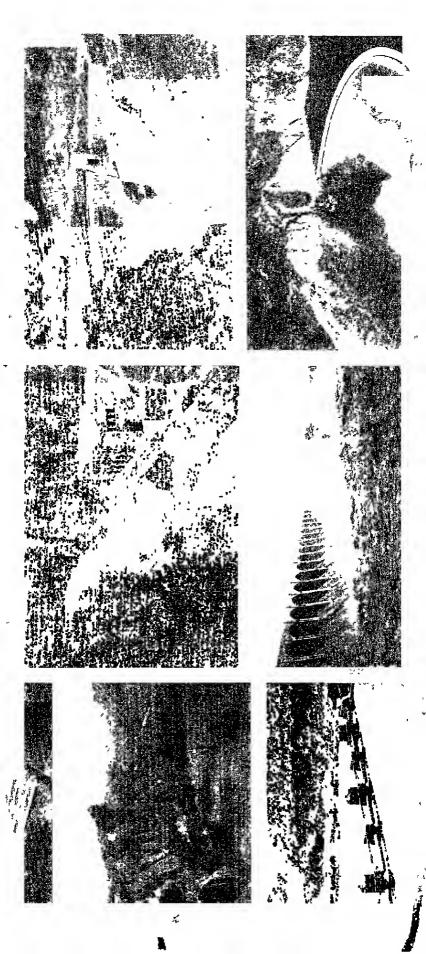
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EXPERIMENTAL ARCH DAM AT STEVENSON CREEK

There is much divergence of engineering opinion as to the distribution of stresses in an arch dam. Experimental knowledge is therefore desired and at the suggestion of Fred A Noetzli an investigation of arch dams was started in 1922 in the United States by the Engineering Foundation, the joint research organization of the American Societies of Civil, Mechanical, Electrical, Mining and Metallurgical Engineers A committee of hydraulic engineers was organized Observations on existing dams were undertaken, and funds were collected for the construction of an arch dam to be built for purely experimental purposes. In all about 75 organizations and individuals including power companies, industries, bankers, governmental bureaux, universities, constructors and engineers, joined in subscribing a fund of about \$120,000 for the purpose of constructing an extremely slender arch dam 60 ft high, which would be raised later to 100 ft. and tested to destruction, if possible A plan, profile and cross-section of the experimental dam is shown in fig 5

Such a dam was built in the spring of 1926 in the steep granite gorge of Stevenson Creek, Calif, about 60 m east of Fresno On this creek, strong granite walls afforded perfect foundation conditions The reservoir was small and could be filled as desired from a nearby tunnel of the Southern California Edison Company Even if the dam should break while the reservoir was full, no damage would result. The dam was built of Portland cement concrete without steel reinforcament. It was completed in June, that to a height of 60 feet. It has treatles and platforms for

and a 24 m pape for diverting the water of the creek pand the dann durant the tests. The the kness of had ma f





quan 1 y of concrete n the dam 5 about 450 cu yards Spe all care was taken to ob n a concrete of a high degree o un form y In other respects the concrete was of a commercial mixture, failing a compression at about 2,000 lb. per sqin. at the age of 28 days. The dam was built under the direction of H. W. Dennis

Measuring Devices—Several hundred instruments and measuring posts were placed in the concrete during the construction of the dam and read at frequent intervals. The strains in the interior of the dam were measured by means of electric telestram gauges, embedded in the concrete at an elevation of 20 feet. On the surface the strains were measured with strain gauges. The temperature changes in the concrete were determined by means of about 140 electric resistance coils. The deflections of the dam were measured by means of vertical chnometers in seven vertical sections; and by triangulation. The changes of curvature of the arches under load were measured by means of a radius meter. Special instruments were devised for measuring any movements of the bed rock.

The Testing.—During the summer of 1926, 13 complete load tests were made with the reservoir partiy and completely filled All tests were made usually between midnight and the early morning hours, in order to minimize temperature changes of the arch during any one test. Generally, for each load test, "no load" readings were taken on all the instruments at about midnight of the day of testing, with no water in the reservoir. Then the reservoir was filled as quickly as possible to the desired elevation, and a complete series of "load" readings were taken. The water was "hen let out from the reservoir and the "no load" readings

repeated for checking purposes

Results.—From the observed data of deflections and strains. the bending moments, shears and stresses in a number of vertical and horizontal planes through the arch dam have been determined From this has been determined the probable division of the total water pressure between the vertical cantilevers and the horizontal arches into which, as is customary, an arch dam is assumed to be divided for convenience of analysis. The deflections, moments, shears and loads on the middle vertical cantilever were deduced by repeated differentiation from deflections measured with the chnometer. In a similar way were determined the moments, shears and loads carried by the horizontal arch elements at elevations 10 ft. apart The remarkable degree of accuracy of the test results is well illustrated by the fact that the sum of the partial loads of cantilever and arches is substantially equal to the total water pressure, which, of course, must be the case. The stresses are based on a modulus of elasticity of 3,600,000 lb per sqin, as determined by laboratory and field tests. The reasonable agreement between design and test data is evident. Two months after completion of the last test series the dam was overtopped by an unexpectedly large flood to a depth of about three feet. In spite of this crucial test the dam did not fail and thus illustrated most forcibly the great strength of a well built arch dam even of extremely thin cross section. A celluloid model 10 the dimensions of the Stevenson Creek dam was tested by loading with mercury. The results showed remarkable agreement with the tests on the full scale structure Models of larger sizes, of mortar and other substances are being planned as an aid and guidance in the design of future arch dams. The experiments on the Stevenson Creek test dam and on small models have yielded very valuable results The tests have shown conclusively that under load an arch dam acts in accordance with the well established laws of elasticity. The results of the investigation should lead to much economy.

DAN, a tribe of Israel named after a son of Jacob and Bilbah, the maid of Rachel. The earlier home of the tribe was to the west of Judah, where it seems that they occupied the sea coast, covering the caravan routes, where the weakness of the later kings of the Egyptian 18th dynasty made it possible for them freely to plunder travellers (Judges v. 17; Gen. xlix). The Philistine settlements naturally came into contact first with this tribe, and in the days of Samson their territory was reduced to small compass, embracing only the neighbourng villages of Zorah and Eshtaol. The story of Samson gree us and trivial to Stanton frequent reports. He went through the Diacing of Gen. Grapt in supreme through the placing of Gen. Grapt in supreme command of all the armies in the field. In 1864-65 Dana was second, assistant-secretary of war. He became the editor and part-owner of the New York Sam in 1868, and remained in control of the New York Sam in 1868, and remained in opposed the neighbourney villages of Zorah and Eshtaol. The story of Samson their territory was reduced to small compass, embracing only the neighbourney villages of Zorah and Eshtaol. The story of Samson their territory was reduced to small compass, embracing only the neighbourney villages of Zorah and Eshtaol. The story of Samson their territory was reduced to small compass, embracing on the neighbourney villages of Zorah and Eshtaol. The story of Samson their territory was reduced to small compass, embracing on the part of the New York Sam in 1868, and remained in the control of the New York Sam in 1868, and remained in the control of the New York Sam in 1868, and remained in the control of the New York Sam in 1868, and remained in the control of the New York Sam in 1868, and remained in the control of the New York Sam in 1868, and remained in the control of the New York Sam in 1868, and remained in the control of the New York Sam in 1868, and remained in the control of the New York Sam in 1868, and remained in the control of the New York Sam in 1868, a

expus on of the Danites In Judges x. 1 seq. we have the narrate of their ringration to a new site in the far north. This was their home during the whole period of the northern monarchy and their settlement centred round one of the most famous sanctuaries in Israel. The fact that several of the famous Israelite artists (especially in metal) are connected with the tribe of Dan (of e.g., Exod xxxi 6; Il Chron in 13 seq.) has suggested that early tradition connected Dan with the Calebites and Kenites.

In the monarchic period the importance of Dan is almost entirely religious. It was a home of built worship, and tradition as cribes the introduction of this cult to Jeroboam I (I Ki xii 28-30), but the shrine is far older, and its priesthood traced its descent from Moses himself (Judges xviii. 30). Dan was subsequently either regarded as the embodiment of wickedness or entirely ignored (the list of the redeemed in Rev. vii. 5-8 omits the tribe of Dan altogether). Late speculation that the Antichrist should spring from it appears to be based upon an interpretation of Gen. xlix. 17

DAN, a light-skinned patrilineal people (formerly cannibal) sometimes known as the Jula cannibals, on the French Ivory coast and in Liberia in the basin of the upper Kavally. The villages are independent Family property is joint with individual ownership of personal possessions. They practise husbandry and arboriculture (millet, yam, kolz. coco-nut oil and rubber). They are animists and practise ordeal by poison and by horing oil.

See M S. Vendeix, "Ethnographie du Cercle de Man, Côte d'Ivoire,"

Revue Ethn et Trad pop (1924)

DAN, a town which marked the northern limit of Palestine reckoned "from Dan to Beersheba" It is now identified with Tell-el-Kadhi, a mound 4 m. west of Banias, in a jungle of rank vegetation. From its western base issues a mighty fountain (Leddan), the largest of the sources of the Jordan. Laish, or Leshem (Judges aviu), was its name prior to its conquest by migrating Danites and it formed, seemingly, a colony or dependence of Sidon Here the Danites set up Micah's graven image (Judges aviii 30f), and Jeroboam erected one of his golden calves (1 Ki. xii. 29). Its name disappears from history with its capture by Ben-Hadad of Damascus (1. Kl. xv. 20) An attempt has been made to locate Dan at Banias based on a direct statement of Theodore and a vague alluvion of the Jerusalem Talmud; but it has against it the definite testimony of Josephus (Antiq. i 10 i. etc) and that of Eusebius and Jerome (Onom. Sac) as well as the evidence from the survival of the name (both Dan and Kadhi signify judge). Tell-el-Kadhi is now in British Mandated Territory. A preliminary survey of the mound for excavation purposes has been made since the World War

DANA, CHARLES ANDERSON (1819-1897), American iournalist, was born in Hinsdale, N.H., on Aug 8, 1819. In 1839 he entered Harvard, but the impairment of his eyesight m 1841 forced him to leave college. From Sept. 1841 until March 1846 he lived at Brook Farm (q v.), where he was made one of the trustees. He had previously written for the Harbinger, the Brook Farm organ, and had written as early as 1844 for the Boston Chonotype. In 1847 he joined the staff of the New York Tribune, and in 1848 he wrote from Europe letters to it on the revolutionary movements of that year Returning to the Tribune in 1849, he became its managing-editor, and in this capacity actively promoted the anti-slavery cause. In 1862 his resignation was asked for, apparently because of wide temperamental differences between him and Creeley Secretary of war Stantan under the made him a special investigating agent of in this capacity Dana spent much time 1. ... int to Stanton frequent reports. He went enrough the Vicksburg campaign and was at Chickamauga and Chattanooga, and urged the placing of Gen. Grant in supreme command of all the armies in the field. In 1864-65 Dana was second, assistant-secretary of war. He became the edror and part-owner of the New York Sun in 1858, and remained in control of " motil his death. Under Dana's control the Sun opposed the property of the state of Grant for me in the state of Grant

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the Lie total Commission and community referred to Hayes as .hr trud presiden. In 1684 it supported Benjamin F Butler, the canadate of Greenback-Lapor and Anti-Monopolist parties, for the presidency and opposed Blaine (Republican) and even more cutterly Cieve and 'Democratic; it supported Cleveland and consect married in 1888, and in 1896, on the free-silver isone, it opposed Bryan, the Democratic candidate for the presidency Dires metary style came to be the style of the Sun-ample, strong, clear "boiled down" The Art of Newspaper If long containing lectures which he wrote on journalism, was purashed in 1905. With George Ripley he edited The New em-nam Coclopuelis (1857-63), reissued as the American Con openies in 1573-76. He edited an anthology. The Household Bush & Postry (1857) Dana's Remindscences of the Civil War was published in 1898, as was his Eastern Journeys, Notes of Frita! He died at Glen Cove. Long Island NY. on Oct. 17,

See James Wikin, The Life of Charles A Dana (1907); and Frank M. O Brien The Story of the "Sun," New York, 1833-1918 (1918)

DANA, FRANCIS (1743-1811) American jurist, was born in Charlestown (Mass / June 13 1743 He graduated at Harvard in 1700 was admitted to the bar in 1757, became a leader of the Sons of Liberty, and in 1774 was a member of the first provincial congress of Massachusetts. He was a member of the Massachasetts Execurive Council (1776-80) and a delegate to the Contmental Congress (1776-78) In the autumn of 1779 he was appointed secretary to Joon Adams, who had been selected as minister plentpotentiary to negotiate treaties of peace and commerce with Great Britain and in Dec. 1780 he was appointed diplomatic representative to the Russian Government. He remanned at St Petersburg from 1781 to 1783, but was never formally received by the empress Catherine. In 1784 he was again chosen a delegate to Congress, and in 1785 he became a justice of the Massachusetts supreme court over which he presided (1791-180t) with ability and distinction. He was an earnest advocate of the adoption of the Federal constitution, was a member of the Massachusetts convention which ratified that instrument and was one of the most influential advisers of the leaders of the Federalist parry. He died at Cambridge (Mass), April 25 1811.

His son, RICHARD HENRY DANA (1787-1879), was born in Cambridge (Mass), Nov 15. 178; After graduation from Harvard in 1808 he was admitted to the bar; but literature was his absorbing interest. From 1815 until 1821 he was associated with Jared Spacks and Edward T Channing in the editorial control of the North American Review, and in 1821-22 he put forth a miscellany, The Idle Mon. He published his first volume of Poems in 1327; and in 1835 appeared his Poems and Prose Writags, republished in 1850 in two volumes. An English edition, The Bucconeer and Other Poems, was issued in 1844. Dana died m Boston, Feb. 2, 1879

RICHARD HENRY DANA (1815-1882), son of the last-mentioned, was born in Cambridge (Mass), Aug. 1. 1815 He entered Harvard in the class of 1855, but an illness affecting his sight necessitated a suspension of his college work, and in Aug 1834 he shipped before the mast for California, returning in Sept 1835. This voyage was ceasily a turning point in his career, renewing his health, turning him into a self-reliant, energetic man with broad interests and keen sympothies, and giving him the material for his Two Vears before the Most (1840), one of the best American books on the sea Not only is this still widely read at home and abroad, but it also les bisageic significance. It created interest in California onion to the gold rush: with Melville's White Jacket (1850) it led to reforms in the treatment of sailors; and it vividly preserves a tygone epock. Before the publication of his book, Dana had completed his legal training at Harvard, and he now began the miretics of the his former or where he cold e'v bringing him out of the restriction in the published The Stamusk's Friend, republished in England as The Seamon's Marral,

e in. and irred Greeley's normation. It favoured Tilden, it involved, Dana became prominently associated in 1848, with the Democratic conditate for the presidency, in 1876 opposed the Free Soil movement and volunteered his services for negroes seized under the Fugitive Slave Act. In 1857 he became a regular attendant at the meetings of the famous Boston Saturday club, to the members of which he dedicated his account of a vacation trip. To Cuba and Back (1850). He returned to America from a trip round the world in time to participate in the presidential campaign of 1860, and after Lincoln's inauguration he was appointed United States district attorney for Massachusetts In this office in 1863 he won before the Supreme Court of the United States the famous prize case of the "Amy Warwick," on the decision in which depended the right of the Government to blockade the Confederate ports without giving the Contederate States an international status as belligerents. He brought out in 1865 an edition of Wheaton's International Law, his notes constituting a most learned and valuable authority on this subject and its hearings on American history and diplomacy; but Dana was charged by the editor of two earlier editions, William Beach Lawrence with infringing his copyright, and was involved in litigation for 13 years. Dana's political aspirations were largely trustrated. He declined the position of United States district judge, but he became a member of the Massachusetts house of representatives (1867-68), and in 1807 was retained, with William M Evarts, to prosecute Jefferson Davis, whose admission to bail he counselled Although the Senate refused to ratify Grant's nomination of him for minister to England, he was, in 1877, one of the counsel for the United States before the commission that met at Hahfax, NS, to arburate the fisheries question between the United States and Great Britain. In 1878 he gave up his law practice, and he devoted the rest of his life to study and travel He died in Rome, Italy, Jan 6, 1882

For the elder Richard Henry Dana, see J G Wilson. Bryant and His Friends (1885) For the younger, see C F Adams, Richard Henry Dana a Biography (1890) and Exercises. . Celebrating the One Hundreath Anniversary of the Birth of Richard Henry Dana (Cambridge, 1916).

DANA, JAMES DWIGHT (1813-1895), American geologist, mineralogist and zoologist, born in Utica, New York, on the 12th of February 1813. He early displayed a taste for science which had been fostered by Fay Edgerton, a teacher in the Utica high school, and in 1830 he entered Yale College, in order to study under Benjamin Silliman the elder. Graduating in 1833, for the next two years he was teacher of mathematics to midshipmen in the navy, and sailed to the Mediterranean while engaged in his duties. In 1836-37 he was assistant to Professor Silbman in the chemical laboratory at Yale, and then, for four years, acted as mineralogist and geologist of a United States exploring expedition, commanded by Captain Charles Wilkes, in the Pacific ocean (see WILKES, CHARLES). His labours in preparing the reports of his explorations occupied parts of thirteen years after his return to America in 1842. In 1844 he again became a resident of New Haven, married the daughter of Professor Silliman, and in 1850, on the resignation of the latter was appointed Silliman Professor of Natural History and Geology in Yale College, a position which he held till 1892. In 1846 he became joint editor and during the later years of his life he was chief editor of the American Journal of Science and Arts (founded in 1818 by Benjamin Silliman), to which he was a constant contributor. principally of articles on geology and mineralogy. A bibliographical list of his writings shows 214 titles of books and papers, beginning in 1835 with a paper on the conditions of Vesuvius in 1834, and ending with the fourth revised edition (finished in February 1895) of his Manual of Geology His reports on Zoophytes, on the Geology of the Pacific Area, and on Crustacca. summarizing his work on the Wilkes expedition, appeared in 1846 1849 and 1852-1854, in quarto volumes, with copiously illustrated atlases, but as these were issued in small numbers, his reputation more largely tests upon his System of Mineralogy (1837 and many later editions in 1892), Manual of Geology (1862; ed 4, 1895). Manuel of Mineralogy (1848), afterwards entitled Hanual of Mineralogy and Lithology (ed 4. 887) and Corals and Coral Islands (872 ed 2 1890) In 1887 Dana revisited the Ha a useful statise ashie hour largers of the estraction and danger. Islands and the results of his further investigations were pub

hished in a quarto volume in 1890 entitled Cla a te sit s of Volcanoes By the Royal Society of London he was awarded the Copley medal in 1877 and by the Geolog cal Society the Woilaston medal in 1874. His powers of work were extraordinary, and in his 82nd year he was occupied in preparing a new edition of his Manual of Geology, the 4th edition being issued in 1895. He died on the 14th of April 1895.

His son Edward Salisbury Dana, born at New Haven on the 16th of November 1849, is author of A Textbook of Mineralogy (1877; new ed 1898) and a Text Book of Elementary Mechanics (1881) In 1879-80 he was professor of natural philosophy and then became professor of physics at Yale

See Life of J. D Dana, by Daniel C. Gilman (1899).

DANAE (Gr dă-nă-ā, anglicized dăn'ă-ē), in Greek legend. daughter of Acrisius, king of Argos. According to the myth, her father having been warned by an oracle that she would bear a son by whom he would be slain, confined Danse in a brazen tower. But Zeus descended to her in a shower of gold, and she gave birth to Perseus, whereupon Acrisius placed her and her infant in a wooden box and threw them into the sea. They were finally driven ashore on the island of Seriphus, where they were picked up and brought to Polydectes, king of the island. For her subsequent adventures see Perseus.

DANAGLA: see Barabra

DANAO, a municipality (with administration centre and 45 barries or districts) of the province and island of Cebu, Philippine islands, on the east coast, at the mouth of the Danao river, 17 m. NNE of Cebu, the provincial capital Pop (1913) 22 581, of whom only 9 were whites It is in the centre of a rich agricultural region producing rice, corn, sugar, copra and cacao Coal is mined in the vicinity. In 1918, it had five manufacturing establishments with an output valued at 218,900 pesos: five small sugar-mills; and 230 household industry establishments with output valued at 47,300 pesos. Of the seven schools, five were public The language spoken is Cebu-Bisayan

DANAUS, in Greek legend, son of Belus. king of Egypt, and twin-brother of Aegyptus. He was born at Chemmis (Panopolis) in Egypt, but having been driven out by his brother he fled with his 50 daughters to Argos, the home of his ancestress Io. The 50 sons of Aegyptus arrived in Argos, and Danaus was obliged to consent to their marriage with his daughters. But to each of these he gave a knife with injunctions to slay her husband on the marriage night. They all obeyed except Hypermestra, who spared Lynceus. She was brought to trial by her father, acquitted and afterwards married to her lover. Being unable to find suitors for the other daughters, Danaus offered them in marriage to the youths of the district who proved themselves victorious in racing contests (Pindar, Pythia, ix 117).

According to another story Lynceus slew Danaus and his daughters and seized the throne of Argos (schol. on Europides, Hecuba, 886). In the other world the Danaides were condemned to the endless task of filling with water a vessel which had no bottom. Crime and pumishment alike have been variously explained by mythologists.

See articles in Pauly-Wissowa's Realencyklopadie and W. H. Roscher's Lexikon der Mythologie; Campbell Bonner, in Harvard Studies, xui. (1902).

DANBURITE, a rare mineral species consisting of calcium and boron orthosilicate, $CaB_c(SiO_4)_c$, crystallizing in the orthorhombic system and discovered in 1839 at Danbury. Conn. whence its name, and where it occurs embedded in dolomite. The crystals are transparent to translucent, and colourless to pale yellow, they are prismatic in habit, and closely resemble topaz in form and interfacial angles. There is an imperfect cleavage parallel to the basal plane; hardness 7, specific gravity 3.0. Splendid crystals have been found in Japan.

DANBURY, a city of south-western Connecticut, 65m. N.N.E. of New York city, on the Still river; one of the county seats of Fairfield county. It is served by the New York, New Haven and Hartford railroad The population was 18,943 in 1920 (21% foreign-born white) and was estimated locally at 22,000 in 1928. The city lies in a broad plam, surrounded by the foot-

h lls of the Berksh es and re ans much of the delightful aspect of a New England village. It is the seat of a State normal school, opened 1904. The predominant industry is the manufacture of felt hats, begun in 1780, which in 1928 was represented by over 30 factories, employing 5 000 workers. Other important manufactures are hat-making machinery, silver-plated ware, electric trucks, silk braid, thread, ball and roller bearings and electric insulators. The aggregate factory output in 1927 was valued at \$35,392,523 An agricultural fair is an annual event. The town of Danbury was settled in 1684. The borough was chartered in 1822 and became a city in 1889. In 1776 a depot of military supplies was established here, which in April. 1777, was raided by Governor Tryon of New York In his retreat he was attacked at Ridgefield (9m. S) by the Americans under General David Wooster, who was fatally wounded in the conflict. Several books about Danbury were written by James Montgomery Bailey (1841-94), founder and for many years proprietor of the Danbury News, whose humorous sketches in the News made himself and the paper famous

The "Danbury Hatters' Case,' a suit for damages brought by a manufacturing firm against 186 hatters of Danbury in 1902, on the ground that their boycott was a violation of the Sherman Act, is important in the annals of organized labour in America. Damages were awarded to the plaintiff and his contention was upheld by a decision of the U.S. Supreme Court in 1915.

DANBY, THOMAS OSBORNE, EARL OF: see Leeds, Thomas Osborne, 1st Duke of.

DANBY, FRANCIS (1793-1861), English painter, was born in the south of Ireland on Nov 16, 1793, and died at Exmouth on Feb. 9, 1861. He led a wandering life, but spent his last 20 years in England. A good example of his work is "Fisherman's Home—Sunset" in the National Gallery, and the "Departure of Ulysses from Ithaca" (1854). His sons, James Francis (1816-73) and Thomas (1817-86), were also well-known artists.

and Thomas (1817?-86), were also well-known artists

DANCE, the name of an English family distinguished in architecture, art and the drama. George Dance, the elder (1700-1768) obtained the appointment of architect to the City of London, and designed the Mansion House (1739), the churches of St Botolph, Aidgate (1741). St. Luke's, Old street, St Leonard, Shoreditch; the old excise office, Broad street; and other public works of importance. His eldest son, James Dance (1722-1774), was educated at the Merchant Taylors' school and St. John's college, Oxford. He took the name of Love and became an actor and playwright, connected for 12 years with Drury Lane theatre He wrote a number of comedies—the earliest Panela (1742)

George Dance's third son, SIR NATHANIEL DANCE-HOLLAND, BART (1735-1811), studied art under Francis Hayman in Italy, where he formed a hopeless attachment for Angelica Kauffmann. From Rome he sent home "Dido and Aeneas" (1763). On his refure to England he took up portrait-painting with great success, and contributed to the first exhibition of the Royal Academy, of which he was a foundation member, full-length portraits of George III. and his queen These, and his portraits of Captain Cook and of Garrick as Richard III, engraved by Dixon, are his best-known works. In 1790 he became M.P. for East Grinstead, taking the additional name of Holland. He was made a baronet in 1800.

George Dance's fifth and youngest son, George Dance, the younger (1741-1825), succeeded his father as City surveyor and architect in 1768. He had spent several years abroad, chiefly in Italy, and had already distinguished himself by designs for Blackfriars bridge. His first important public work was the rebuilding of Newgate prison in 1770. The front of the Guildhall was also his. He, too, was a foundation member of the Royal Academy His son, Charles Dance (1794-1863), was for 30 years registrar, taxing officer and chief clerk of the insolvent debtors' court. In collaboration with J. R. Planché and others, or alone, he wrote a great number of extravaganzas, farces and comedicities. He was one of the first of the burlesque writers, and was the author of those produced so successfully by Madame Vestris for years at the Olympic

DANCE. Dancing consists in the rhythmical movement of any or all parts of the body in accordance with some scheme of

of erro c sh, one comman ካ ፕ የታሚ er i en In mples n e i 2944 m carries the bands or beaung a drum to more mandrate is the accompaniment composed of s each with its own rhythm or of an orchestra of raments. Frequently every dance has its own song by the performers themselves or by the onlookers mine peoples the range of movements employed in . ande Ad parte of the body are used, head, back agers and even the facial moscles are brought into s 'he feer. Some performances demand great physiwith leaping and many bodily contortions as in the ae Macra. In others the dancers confine themselves ous movement of the hands and feet. Many obcommented on the sameness and lack of beauty in . Dur such a condemnation is pased upon the misconher are performed primarily for the pleasure of the euracular dances are not unknown, but generally the the dancers is of first importance

seen written of the obscenity of primitive dancing n I een said that it is primarily sexual in intent. Evimany parts of the world does not bear this out. To nt all cancing is sexually stimulating but except in ces this stimulus may be regarded as a by-product. that all primitive dance movements are mimetic. publeday so, as the totemic dances in Australia (see out a the Audaman islands there is no trace of any ice Often the movements seem to be artistic renderneous actions resulting from some emotional state dance is performed by a group or groups of people ove in the same way. Solo dances are rare though iv there is a dance leader who has a special part to able-bodied adults of the community are expected to cally the sexes are segregated, though this is by no At, but the close embrace, customary in European as seldem countenanced Sometimes certain dances to one sex Unless the dance forms part of a secret t section of the community which is not dancing acts ad often performs the accompaniment. Children are d to join their elders, but have dances and singing themselves.

in conditions some individuals, such as those who are и и seclusion at puberty, are not allowed to dance. n abnormal state and temporarily cut off from sociberefore excluded from dancing, which is essentially eation. It is for this reason too that a dance is so



OF SERVICE AND CONDING AND PARTY. of the court o What is made to know a comme PS 2 Volve on a concept of "--- "C "-.) IC &" ۱ لا لانتها ۲۰۰ شاه مطقد the following strangers of the body aking the short given in All Handon The property was Bright ب بود د است . Districtments ox it is a means of 柳柳 which are sophilip close of Passage Rises (q v.) prespecially

or ac r es acr a figh ng or he build ng of a communal house or during ster group act the such as the tribal corroboree in Aus rada or the pe ce making of he Andamans. The tood supply is al-important to the community and thus among an agricultural people for instance, seed and harvest time have social significance, and are therefore times of dancing

But except on such occasions as the dance-meetings of local groups and the peace-making ceremonies of the Andamans, the



sense of social unity is felt as a pleasurable accompaniment to dancing rather than as its conscious purpose. The significance of the dances to the dancers and their emotional accompaniment have been very insufficiently studied, and there has been much theorizing on little data. Many dances seem to be magical ceremonies by means of which human beings or natural phenomena are controlled Thus the dances of the totemic ceremonies of central Australia are performed to promote the fertility of the animal species concerned, and many hunting and war-dances appear to be intended to influence the hunted game or the enemy, so they may be readily killed The actions in such dances are mostly mimetic, and it is not uncommon for performers at important ceremonies to

CHINESE BOY IN COS. be killed if they make any mistake, prob TUME FOR DEVIL DANCE ably because it is felt that such faults would detract from the efficacy of the dance. Accuracy of movement like accuracy of words is essential to the success of magical rites. From the way in which a dance is performed omens are fre quently taken, any mistake or want of spirit being accounted evil

The border-line between magic and religion is notoriously difficult to draw, but among some people dancing seems definitely to be a form of religious exercise akin to prayer

Dancing as an incident in courtship is found among many species of birds and animals. In all dancing there is an opportunity for pleasurable exercise, but some dances are designed to create sexual excitement in both performers and onlookers. Thus in Torres Straits, the unmarried girls watch the bachelors dancing, and then each taps on the shoulder the one whom she has chosen; and in Australia the occasional periods of organized sexual licence are led up to by dancing

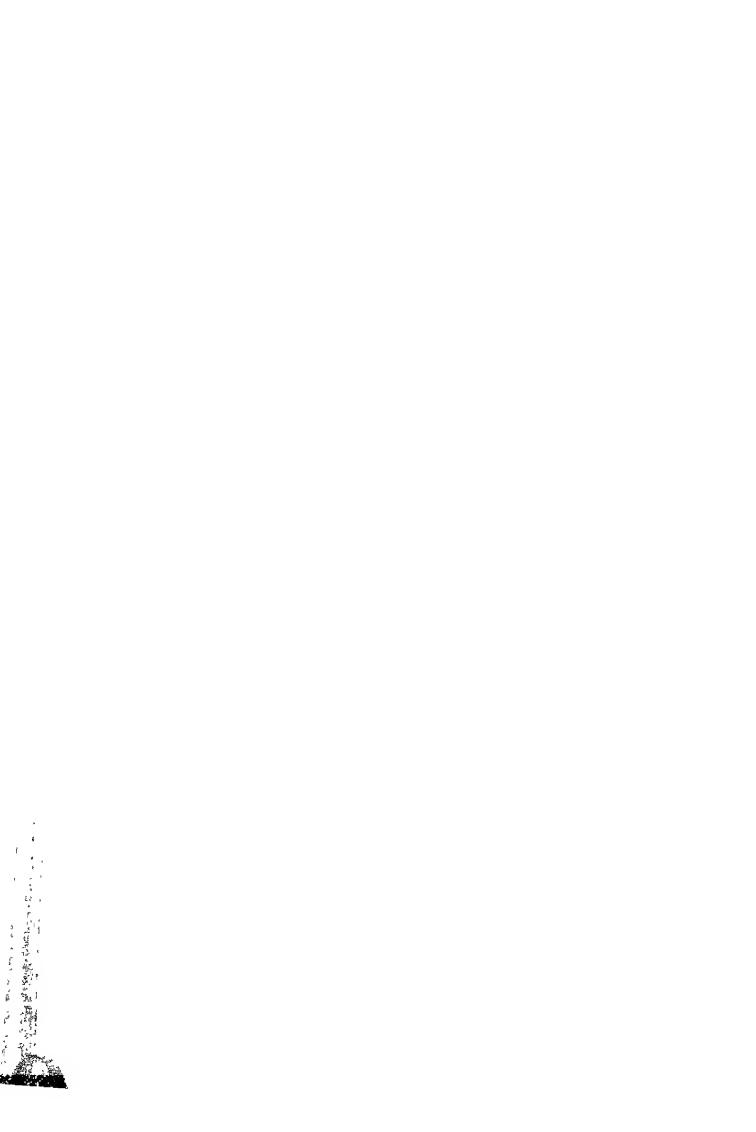
Auto-intoxication is induced either intentionally or incidentally by dancing, the best known examples of this being the wild excesses of the bacchanals and of the shamans of Siberia, who use dancing as a means of becoming inspired by their tutelary spirit Similar "possession" is induced by priests among savage peoples and the power to do this is often a sine qua non of priesthood. In a war dance the condition produced is not so extreme but is akin to this. The warriors work themselves into a frenzy of hatred, and they feel themselves exalted Though many war dances may have a supposed magical effect on the enemy, this exaltation, this sense of heightened valour, is often one if not the only reason for their performance

Nothing will survive in any human society unless it has a functional value. Within every individual in a community there is a conflict of desires. On the one hand there is a wish to be outstanding, on the other the longing for a sense of group fellowship To both these desires dancing at once provides satisfaction. The dancer can display himself to the best advantage and can do so in harmony with others. On certain occasions one or other of these two aspects may be stressed, as, for instance, the individual aspect in dances of courtship, the group aspect in war or peace dances, but, to a greater or less extent, both aspects are always present Therefore because dancing is entirely satisfying emotionally; it

in the savage and world when be refs in ta magical or religious efficacy have passed away

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HISTORY

The term dancing in its widest sense includes three things () the spon aneous activity of the muscles under the influence of some strong emotion, such as social joy or rebgious exultation; (2) definite combinations of graceful movements performed for the sake of the pleasure which the exercise affords to the dancer or to the spectator, (3) carefully trained movements which are meant by the dancer vividly to represent the actions and passions of other people. In the highest sense it seems to be for prosegesture what song is for the instinctive exclamations of feeling At a Mexican feast to the god Huitzilopochtli the noblemen and women danced tied together at the hands, and embracing one another, the arms being thrown over the neck. This resembles the dance variously known as the Greek Bracelet or Brawl, Oppos, or Bearsfeet; but all of them probably are to a certain extent symbolical of the relations between the sexes In a very old Peruvian dance of ceremony before the Inca, several hundreds of men formed a chain, each taking hold of the hand of the man beyond his immediate neighbour, and the whole body moving forwards and backwards three steps at a time as they approached the throne

The rude imitative dances of early civilization are of extreme interest. In the same way the dances of the Ostyak tribes (Northern Asia) imitate the habitual sports of the chase and the gambols of the wolf and the bear and other wild beasts, the dancing consisting mainly of sudden leaps and violent turns which exhaust the muscular powers of the whole body Kamchadales, too, in dancing limitate bears, dogs and birds The Kru dances of the Coast Negroes represent hunting scenes, and on the Congo, before the hunters start, they go through a dance imitating the habits of the gorilla and its movements when attacked The Damara dance is a mimic representation of the movements of oxen and sheep, four men stooping with their heads in contact and uttering harsh cries. The canter of the baboon is the humorous part of the ceremony. The Bushmen dance in long irregular jumps, which they compare to the leaping of a herd of calves, and the Hottentots not only go on all-fours to counterfeit the baboon, but they have a dance in which the buzzing of a swarm of bees is represented. The Kennowits in Borneo introduce the mias and the deer for the same purpose. The Australians and Tasmanians in their dances called corrobories imitate the frog and the kangaroo (both leaping animals). The hunt of the emu is also performed, a number of men passing slowly round the fire and throwing their arrows about so as to imitate the movements of the animal's head while feeding The Gonds are fond of dancing the bison hunt, one man with skin and horns taking the part of the animal. Closely allied to these are the mimic fights, almost universal among tribes to which war is one of the great interests of life The Bravery dance of the Dahomans and the Hoolee of the Bhil tribe in the Vindhya Hills are illustrations. The latter seems to have been reduced to an amusement conducted by professionals who go from village to village,—the battle being engaged in by women with long poles on the one side, and men with short cudgels on the other. There is here an element of comedy, which also appears in the Fiji club-dance. This, although no doubt originally suggested by war, is enlivened by the presence of a clown covered with leaves and wearing a mask. The monotonous song accompanying the club-dance is by way of commentary or explanation. So, also, in Guatemala there is a public buile or dance, in which all the performers, wearing the skins and heads of beasts, go through a mock battle, which always ends in the victory of those wearing the deer's head. At the end the victors trace in the sand with a pole the figure of some animal; and this exhibition is supposed to have some historical reference. But nearly an savage those have a regular war-dance, in which they appear i not to say solemn, and the accompaniment a psalm time. The in fighting castume, handle their were and go through the language haddenes had a skinping step, and were practised movements of challenge, conflict, pur the language haddenes had a skinping step, and were practised movements of challenge, conflict, pur the language haddenes had a skinping step, and were practised movements of challenge, conflict, pur the language haddenes had a skinping step, and were practised or haddenes had a skinping step, and were practised or haddenes had a skinping step, and were practised or haddeness had a skinping step, and were from Italy generally supply the stimulus of not an interest was printed to the stimulus of not a start of the language had a skinping step, and were practised or haddeness had a skinping step, all savage tribes have a regular war-dance, in which they appear

ground and darting their short spears or asseguis to valids the sky In Madagascar, when the men are absent on war, the women dance for a great part of the day, believing that this inspires their husbands with courage. In this, however, there may be some religious significance. These war-dances are totally distinct from the institution of military drill, which belongs to a later period when social life has become less impulsive and more reflective. (The Greek καρπαία represented the surprise by robbers of a warrior ploughing a field. The gymnopaedic dances imitated the sterner sports of the palaestra) There can be little doubt that some of the characteristic movements of these primurve hunting and war-dances survive in the smooth and ceremonious dances of the present day. But the early mimetic dance was not confined to these two subjects: it embraced the other great events of savage life-the drama of courtship and marriage, the funeral dance, the consecration of labour, the celebration of harvest or vintage, sometimes, too, purely ficutious scenes of dramatic interest, while other dances degenerated into games (The Greek Lenaea and Dionysia had a distinct reference to the seasons.) For instance, in Yucatán one man danced in a cowering attitude round a circle while another followed, burling at him behordes or canes, which were adroitly caught on a small stick. Again, in Tesmania, the dances of the women describe their 'clamber for the opossum, diving for shell-fish, digging for roots, nursing children and quarrelling with husbands." Another dance, in which a woman by gesture taunts a chieftain with cowardice, gives him an opportunity of coming forward and recounting his courageous deeds in dance. The funeral dance of the Todas (another Indian hill-tribe) consists in walking backwards and forwards, withour variation, to a howling tune of "ba! hoo!" The meaning of this is obscure, but it can scarcely be solely an outburst of grief. In Nohomer the blook-smiths, carpenters, hunters, braves and tools and instruments, join in a dramatic re a form of dance which is almost precisely equivalent to the spoken incantation. It is used by the professional devil-dancer of the wild Veddahs for the cure of diseases An offering of eatables is put on a tripod of sticks, and the dancer, decorated with green leaves, goes into a paroxysm of dancing, in the midst of which he receives the required information This, however, rather belongs to the subject of religious dances.

It is impossible here to enumerate either the names or the forms of the sacred dances which formed so prominent a part of the worship of ant quity. After the middle of the 18th century there were still traces of religious dancing in the cathedrals of Spain, Portugal and Roussillon-especially in the Mozarabic Mass of Toledo

HISTORIC DANCES, 15TH-19TH CENTURY

France and Italy.—Italy, in the 15th century, saw the renaissance of dancing, and France may be said to have been the nursery of the modern art, though comparatively few modern dances are really French in origin The national dances of other countries were brought to France studied systematically and made perfect there. An English or . . . _) are . _ . only amongst peasants, would be taken to France, polished and perfected, and would at last find its way back to its own country no more recognizable than a piece of elegant cloth when it returns from the printer to the place from which as "grey" material it was sent The fact that the terminology of dancing is almost entirely French is a sufficient indication of the origin of the rules that govern it.

The earliest dances that bear any relation to the modern art are probably the danses basses and danses hautes of the 16th century. The dance basse was the dance of the court of Charles IX and of good society, the steps being very grave and dignified. not to say solemn, and the accompaniment a psalm tune. The a the Bale a study general dane which was capable of H LET LIT & FOLD G AT V That there were imite ve Carces—Bridge miries such as the B codes des Erms es Branles der Combiguer and the Branies des lavonsières. The Bronle in 1 - Ingina form had steps like the Allemande

Perhaps the mot. fameus and stately dance of this period was the Parone of Spanish ongine, which is very fully described in ! Luciure's Oresembrather, the earliest work in which a dance is four a mulen described. The Pavane, which was really more , procession than a dance, must have been a very gorgeous and to re sight and it was perfectly suited to the dress of the perion the safe broudes of the ladies and the swords and heavilycurred hets of the gentlemen being displayed in its simple

st drenified measures to great advantage in the Paters and Brane, and in nearly all the dances of the : -th and rath centuries the practice of kissing formed a not unimportant part and seems to have added greatly to the popularity of the pastime. Another extremely popular dance was the Saracond which however, died out after the 17th century. It was origin ally a Spanish dance, but enjoyed an enormous success for a nime in France Every dance at that time had its own tune or cones which were called by its own name and of the Saraband the chevalier de Grammont wrote that 'it either charmed or an-*used everyone, for all the guntarists of the court began to learn

and God only knows the universal twanging that followed" Laurenehn des Yveteaux in his 80th year desired to die to the tune of the Saraband "so that his soul might pass away sweetly"

The Courante was a court dance performed on tiptoe with snehtly jumping steps and many bows and curtseys. The minuet and the waltz were both in some degree derived from it, and it had much it common with the tamous Seguidilla of Spain. It was a favourite cance or Louis XIV who was an adept in the art, and it was regarded in his time as of such importance that a nobleman's education could hardly have been said to be begun until ne had mastered the Courante.

The dance which the French brought to the greatest perfection which many indeed, regard as the fine flower of art-was the Minuet Its origin, as a rustic dance, is not less antique than hat of the other dances from which the modern art has been evolved It was originally a branle of Poicou, derived from the Consume. It came to Paris in 1650 and was first set to music by Lully. It was at first a gay and lively dance but on being brought to court it soon loss us sportive character and became grave and dignified. It is mentioned by Beauchamps, the father of dancingmasters who flourished in Louis XIV's reign, and also by Blondy, his pupil; but it was Peccur who really gave the minuet its popularity, and although it was improved and made perfect by Dauberval. Garcel. Marcel and Vestris, it was in Louis XV's reign that et saw ets golden age. It was then a dance for two in moderate triple time, and was generally followed by the gavotte. Afterwards the minuet was considerably developed, and with the gavotte became chiefly a stage dance and a means of display; but it should be remembered that the minuets which are now danced on the stage are generally highly elaborated with a view to their spectacular effect, and have imported into them steps and figures which do not belong to the minuet at all, but are borrowed from all kinds of other dances. The original court minuet was a grave and simple dance, although it did not retain its simplicity for long. But when it became elaborated it was glorified and moulded into a perfect expression of an age in which deportment was most sedulously cultivated and most brilliantly polished. The "languishing eye and smiling mouth" had their due effect in the minuet; it was a school for chivalry, courtesy and ceremony; the hundred slow graceful movements and curtseys, the pauses which had to be filed by nextly-turned compliments, the beauty and bravery of state is were elequent of graces and outward refinements which we carnot boast now. The fact that the measure of the minuet has become incorporated in the structure of the symphony shows how important was its place in the police world.

The Garotte, which was often danced as a pendant to the minconsisted charge of knowing and It also became stiff and a violent and

ar ficial and in the later and more prudish half of the 8th century the lades rece ed bouquets ins ead of kisses in dancing the gavotte It rap dly became a stage dance and it has never been restored to the ballroom. Gretry attempted to re ive it

but his arrangement never became popular.

Other dances which were naturalized in France were the Ecossaise, popular in 1760; the Cotillon, fashionable under Charles X derived from the peasant branles and danced by ladies in short skirts; the Galop, imported from Germany, the Lancers, invented by Laborde in 1836 the Polka, brought by a dancing-master from Prague in 1840; the Schottische, also Bohemian, first introduced in 1844, the Bourree, or French clog-dance, the Quadrille, known m the 18th century as the Contre-danse; and the Waltz, which was danced as a volte by Henry III of France, but only became popular in the beginning of the 19th century We shall return to the history of some of these later dances in discussing the dances

at present in use

Spain.-If France has been the nursery and school of the art of dancing, Spain is its true home. There it is part of the national life the inevitable expression of the gay contented, irresponsible sunburnt nature of the people The form of Spanish dances has hardly changed, some of them are of great antiquity, and may be traced back with hardly a break to the performances in ancient Rome of the famous dancing-girls of Cadiz. The connection is lost during the period of the Arab invasion, but the art was not neglected, and Jovellanos suggests that it took refuge in Asturias At any rate, dances of the 10th and 12th centuries have been preserved uncorrupted The earliest dances known were the Turdion the Gibidana, the Pié-de-gibao, and (later) the Madama Orleans, the Alemana and the Pavana Under Philip IV theatrical dancing was in high popularity, and ballets were organized with extraordinary magnificence of decoration and costume. They supplanted the national dances, and the Zarabanda and Chacona were practically extinct in the 18th century. It is at this period that the famous modern Spamsh dances, the Bolero, Seguidilla and the

Fandango, first appear Of these the Fandango is the most important. It is danced by two people in 6-8 time, beginning slowly and tenderly, the rhythm marked by the click of castanets, the snapping of the fingers and the stamping of feet, and the speed gradually increasing until a whirl of exaltation is reached A feature of the Fandango and also of the Seguidulla is a sudden pause of the music towards the end of each measure, upon which the dancers stand rigid in the attitudes in which the stopping of the music found them, and only move again when the music is resumed M Vuillier, in his History of Dancing, gives the following description of the Fandango:- 'Like an electric shock, the notes of the Fandango animate all hearts Men and women, young and old, acknowledge the power of this air over the ears and soul of every Spaniard. The young men spring to their places, rattling castanets or imitating their sound by snapping their fingers. The girls are remarkable for the willowy languor and lightness of their movements, the voluptuousness of their attitudes-beating the exactest time with tapping heels Partners tease and entreat and pursue each other by turns Suddenly the music stops, and each dancer shows his skill by remaining absolutely motionless, bounding again into the full life of the Fandango as the orchestra strikes up The sound of the guitar, the violin, the rapid tic-tac of heels (taconeos), the crack of fingers and castanets, the supple swaying of the dancers, fill the spectator with ecstacy The measure whirls along in a rapid triple time. Spangles glitter, the sharp clank of wory and chony castanets beats out the cadence of strange, throbbing, deepening notes-assonances unknown to music, but curiously characteristic, effective and intoxicating. Amidst the rustle of silks, smiles gleam over white teeth, dark eyes sparkle and droop and flash up again in flame. All is flutter and glitter, grace and animation-quivering, sonorous, passionate, seductive '

The Bolero is a comparatively modern dance, having been invented by Sebastian Cerezo, a celebrated dancer of the time of King Charles III It is remarkable for the free use made in it of the arms and is said to be derived from the ancient Zarabanda, dance which has entirely disappeared.





CHARACTERISTIC DANCES OF JAPAN

of sambrella in "Hyaki Monogatari," danced by an actor. 2.

silved Manical in "Norial-bune," careed by actors. 3 "Kagamisneed by an actress. 4, "Full-musume" (wistaria-maid) denced by
arket 5. "Dojozi" a favorite dence, hamed after he monestary

heron-maki danced by a geli

and with which the later Saraband has practically no hing in ommon. The step of the Bolero is low and g ding but well marked. It is danced by one or more couples. The Seg id Ila is had in less and ent than the Fandango, which it resembles. Every province in Spain has its own Seguadilla, and the dance is accompanied by coplas, or verses, which are sung either to traditional melodies or to the tunes of local composers, indeed, the national music of Spain consists largely of these coplas.

The Jota is the national dance of Aragon, a lively and splendid, but withal dignified and reticent, dance derived from the 16th-century Passacaille. It is still used as a religious dance. The Cachuca is a light and graceful dance in triple time. It is performed by a single dancer of either sex. The head and shoulders play an important part in the movements of this dance. Other provincial dances now in existence are the Jaleo de Jerez, a whirling measure performed by gipsies, the Palotéa, the Polo, the Gallegada, the Muyneria, the Habas Verdes, the Zapateado, the Zorongo, the Vito, the Tirano and the Tripola Trapola. Most of these dances are named either after the places where they are danced or after the composers who have invented times for them Many of them are but slight variations from the Faudango and Seguidilla

Great Britain.—The history of court daucing in Great Britain is practically the same as that of France, and need not occupy much of our attention here. But there are strictly national dances still in existence which are quite peculiar to the country, and may be traced back to the dances and games of the Saxon gleemen. The Egg dance and the Carole were both Saxon dances, the Carole being a Yule-tide festivity of which the present-day Christmas carol is a remnant.

The oldest dances which remain unchanged in England are the Morris dances, which were introduced in the time of Edward III (See Morris Dance)

Dancing practically disappeared during the Puritan régime, but with the Restoration it again became popular. It underwent no considerable developments, however, until the reign of Queen Anne, when the glories of Bath were revived in the beginning of the 13th century, and Beau Nash drew up his famous codes of rules for the regulation of dress and manners, and founded the balls in which the polite French dances completely eclipsed the simpler English ones.

The only true national dances of Scotland are reels, strathspeys and flings, while in Ireland there is but one dance—the jig, which is there, however, found in many varieties and expressive of many shades of emotion, from the maddest gaiety to the wildest lament. Curiously enough, although the Welsh dance often, they have no strictly national dances.

Popular Dances of Universal Importance.—The Waltz is no doubt the most popular of the 19th century dances. Its origin is a much-debated subject, the French, Italians and Bavarians each claiming for their respective countries the honour of having given birth to it. As a matter of fact the waltz, as it is now danced, comes from Germany; but it is equally true that its real origin is French, since it is a development of the Volte, which in its turn came from the Lavolta of Provence, one of the most ancient of French dances The Lavolta was fashionable in the 16th century and was the delight of the Valois court The Volte danced by Henry III. was really a Valse à deux pas, and Castil-Blaze says that "the waltz which we took again from the Germans in 1795 had been a French dance for four hundred years? The change, it is true, came upon it during its visit to Germany, hence the theory of its German origin. The first German waltz tune is dated 1770- "Ach! du heber Augustin." It was first i danced at the Paris opera in 1793, in Gardel's ballet La Dansomanie. It was introduced to English ballrooms in 1812, when it roused a storm of ridicule and opposition, but it became popular when danced at Almack's by the emperor Alexander in 1816. The waltz d trois temps has a sliding step in which the movements of the knees play an important part. The tempo is moderate, so as to allow three distinct movements on the three beats of each bar; and the waltz is written in 3-4 time and in eight-bar sentences Walking up and down the room and occasionally hreaking into the

tep of the dance is not true waltzing and the habit of pushing one's partner backwards along the room is an entirely English one. But the dancer must be able to waltz equally well in all directions, pivoting and crossing the feet when necessary in the reverse turn. It need hardly be said that the feet should never leave the floor in the true waltz. Gungl, Waldteufel and the Strauss family may be said to have moulded the modern waltz to its present form by their rhythmical and agreeable compositions. There are variations which include hopping and lurching steps, these are degradations, and foreign to the spirit of the true waltz.

The Quadrille is of some antiquity, and a dance of this kind was first brought to England from Normandy by William the Conqueror, and was common all over Europe in the 16th and 17th centuries. The term quadrille means a kind of card game, and the dance is supposed to be in some way connected with the game. A species of quadrille appeared in a French ballet in 1745 and since that time the dance has gone by that name. It then consisted of very elaborate steps, which in England have been simplified until the degenerate practice has become common of walking through the dance. The quadrille, properly danced, has many of the graces of the minuet. It is often stated that the square dance is of modern French origin. This is incorrect, and probably arises from a mistaken identification of the terms quadrille and square dance. "Dull Sir John" and "Faine I would," were square dances popular in England 300 years ago.

An account of the country-dance, with the names of some of the old dance-tunes, has been given above. The word is not, as has been supposed, an adaptation of the French contre-danse, neither is the dance itself French in origin. According to the New English Dictionary, contre-danse is a corruption of "country-dance," possibly due to a peculiar feature of many of such dances, like Sir Roger de Coverley, where the partners are drawn up in lines opposite to each other. The English "country-dances" were introduced into France in the early part of the 18th century and became popular; later French modifications were brought back to England under the French form of the name, and this, no doubt, caused the long-accepted but confused derivation.

The Lancers were invented by Laborde in Paris in 1836 They were brought over to England in 1850, and were made fashionable by Madame Sacré at her classes in Hanover Square Rooms

The Polka, the chief of the Boheman national dances, was adopted by society in 1835 at Prague Josef Neruda had seen a peasant girl dancing and singing the polka, and had noted nown the tune and the steps. From Prague it readily spread to Vienna, and was introduced to Paris by Cellarius, a dancing-master, who gave it at the Odéon in 1840. It took the public by storm, and spread like an infection through England and America Everything was named after the polka, from public-nouses to articles of dress. Mr. Punch exerted his wit on the subject weekly, and even The Times complained that its French correspondence was interrupted, since the polka had taken the place of politics in Paris. The true polka has three slightly jumping steps, danced on the first three beats of a four-quaver bar, the last beat of which is employed as a rest while the toe of the unemployed foot is drawn up against the heel of the other.

The Galop is strictly speaking a Hungarian dance, which hecame popular in Paris in 1830. But some kind of a dance corresponding to the galop was always indulged in after Voltes and Contre-danses, as a relief from their constrained measures.

The Barn-dance is no doubt of American origin, its height of popularity being toward the end of the 19th century. It was customary for the farmer who wished to build a new barn to call 1.5 - 1.5 - for a "working" and fimsh the job within a 1.0 - 2.0 which a dance was "thrown." The dance is still very popular in certain rural sections, and does not necessarily confine itself to new or empty barns. The square dance, or some form of group dancing, is executed to the accompaniment of a two- or three-piece string hand or the neighbouring fiddle.

The Paul Jones is one of the many "sets" that comprise an evening of barn-dancing. A number of couples are required for the performance as well as a "caller" who gives direction as to the action of each couple.

The Washington Post belongs to America.

Cas up joined to the poles. It is of Poush origin

and in Russia and Polsma Every State ball in Russia.

ath he ceremomous Polonaise

case to a sind of modified polks, was "created" by who was the proprietor of a famous dancing academy .. Trailing Schotmer is a flug. The Fling and Reel | Lives and form the national dances of Scotland and They are complicated measures of a studied and er in which free use is made of the arms and of cries! us The Strait spey is a now and grandiose modifica- \mathbf{R} - \mathcal{C}

& Courtly is the only one of the old English social h has survived to the present day, and it is frequently at concession of the less formal sort of balls. It is a nery game in which all the company take part, men faring each other in two long rows. The dancers are hanging places in such a way that if the dance is caror clusion everyone will have danced with everyone used was first printed in 1685, and is sometimes written semetimes in 6-3 time, and sometimes in 3-9 time on is a modern development of the French dance of me referred to above. It is an extremely elaborate ach a great many toys and accessories are employed, figures may be contrived for it in which presents, tepers biscuits, air-bailoons and burdles are used

Be modern ballet (q v) would seem to have been first a considerable scale in 1489 at Tortona, before Duke Milan It soon became a common amusement on ms at the European courts. The ordinary length was ch containing several entrées, and each entree con-

and quadralles

For the old drvision of the Ars Gymnastica into at setsatorie, and of the latter into cubistica, sphaeristica a, see the learned work of Hieronymus Mercurialis, De ku (Amsterdam, 1572). Cubistic was the art of throwing and is described minutely by Tuccaro m his Trois ers, 1599). Spraeristic included several complex games the in-the Greek moreons, and the Roman trigonalis Orchestic, draded by Plutarch into latto, figure and all and the "silent poetry" of the xerposonia or hand-movement est, canta, si mollia brachia, salfa". information as to modern dancing, see Rameau's Le sier (1726). Querion's Le 'riomphe des grâces (1774); dance oncienne et moderne (1754); Vuilher History of g. trans, 1397), Graudet, Traite de la dance (1900). (A. B F. Y)

JAPAN

in Japan has its origin in her mythical age Accordth century Kopki, when Amateresu, the sun-goddess, igh dudgeon to a cevern, Ama-no-Uzumeno-mikoto a cavern's mouth to lime her out. Kagura, the sacred eay, is traced back to this incident by the native and the second park to this increase in the matter agon to real second to the second t tel the of the bond inal to the bond to th CEANING CO. ON COMPLEX SECULOR and had read Minday by the Libert China 2000's

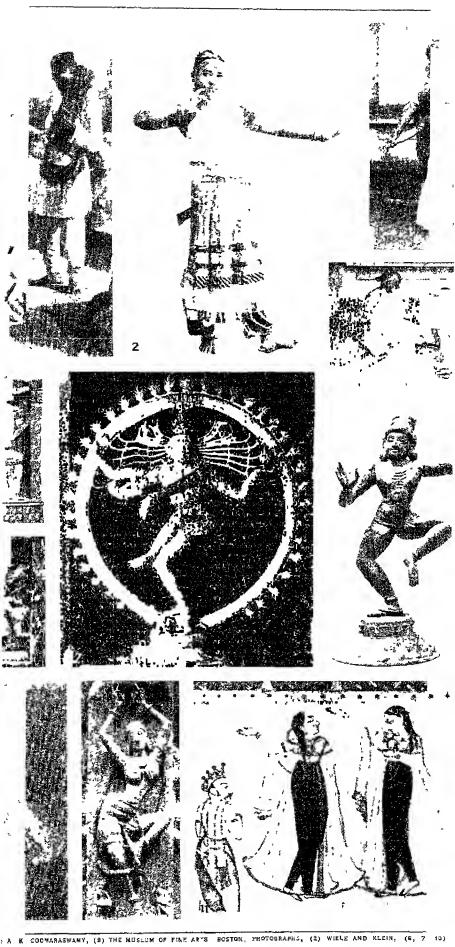
a Visconta is extramely popular in Vienna and Buda- national theatre. In the 16th century the fame of the beautiful a decourse recent with Hungarian composers. The six Okuni popularized the dance among all classes of society. But is the direction two bars of 3-4 time, and consist, the tradition begun by her was interrupted in 1643 when, for reasons of public morality, women were forbidden to appear upon n and Mazir's are both Polish dances and are the stage, male actors and the priests of Buddha continued the ancient custom of Korea and China Western ballroom dances such as waltzes and two-steps, were introduced to Japan in the last quarter of the 19th century and became a fashion for a time but were soon dropped, and then revived again

Visitors to Japan generally return deeply impressed with the beauty of cherry blossoms and the charming grace of the geisha girl dance. The cance is performed not only by the geisha and other dancing professionals, but is given in connection with the classical No drama, and it plays an important part in the old style of acting known as kabuki for, as an eminent actor of the old school has said 'an actor without ability to dance is like a wrestler without strength" Sacred dances called kagura, very simple in character, are given by maidens at some shrines, while Buddhist dances, such as Nembutsu-odori, may be seen in connection with

some religious observances

Speaking of the native dance of Japan, three terms are used mar, odors and furi or shosa, all meaning dance, though technically differentiated. The first has been used to designate the older style of dancing which has been in vogue among the upper class and come to be performed by professionals. It is likened to the graceful movements of the crane at sunrise. The second, which does not appear in literature before the 15th century, has been applied to the dance that was born and has become a fashion among the common people. It means the spontaneous expression of joy with gesture of hands and feet common to all people. The third designates the dance woven into the acting on the stage Mar may be said to designate a classical, odori a popular and fure a dramatic dance. However, the first may also be classified into two classical and popular. The classical mai is preserved in the imperial court in connection with traditional observances or in Shinto shrines as kagura, or in $N\delta$ drama, while the popular mai is practically the same as odors but called mas according to the custom peculiar to certain localities. It is generally mainlained that in mai the attitude is characterized by solemnity, the gesture by elegance and rennement, and the movement by an easy and natural flow, while in odori the dance is more natural and free in attitude and movement, and the gesture more active and subtle, with a greater freedom for variation, allowing even a comical or a rustic element to creep in Furi is enlivened with dramatic quality However, in many instances the distinction is hard, or even impossible, to draw Moreover, the three terms may be said to represent different essential elements in the dance rather than its kinds

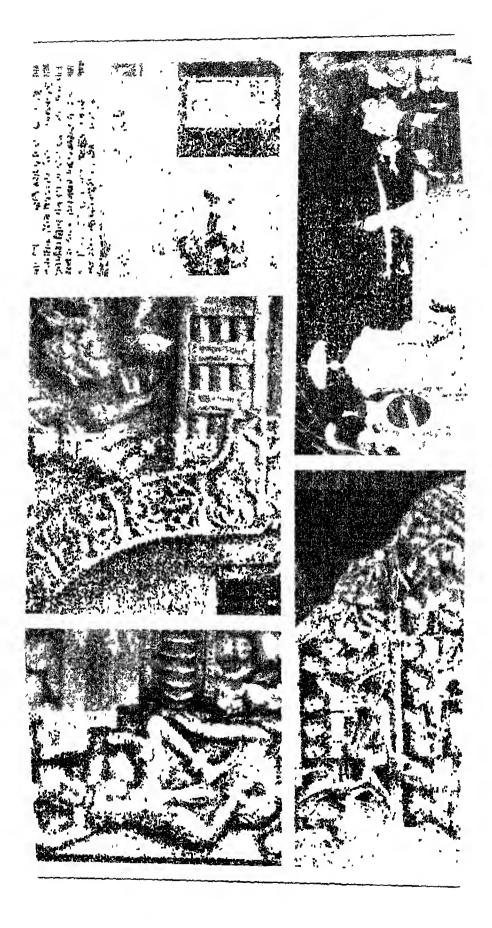
The dance of Japan may generally be divided into two classes the popular and the special or professional. The former is for the pleasure of the mass of people who may acquire the art in several days or weeks, and it includes such dances as Ise-odon (time-honoured dance in the province of Ise), Tanabata-odori (for the festival of the star Vega) and others connected with popular festivals, as well as such religious dances as Bon-odors (held in summer in memory of the dead), Nembutsu odors (with Buddhist prayers), etc. The professional dances are acquired only by patient and laborious practice, requiring at least several years to master them. Some of these dances consist purely of graceful movements while others are enlivened with dramatic elements Those with dramatic elements try to narrate a story in rhythmic movements or to reveal feelings of joy, anger, sorrow, love, hatred, etc., either expressed or suggested in the songs or music the identity of the sound and some with drums and flutes in addition. The songs are the accompanionent of some sent and some with drums and flutes in addition. The songs are the society of scenery; narrative of historical or traditional events, accounts of heroes; of love or madness; sometimes they deal with choose of men and women, or with the spirit of a lion deal with ghosis of men and women, or with the spirit of a lion 1.0 the date. there, it is the conserver to the realm of dreams. or of a spider etc., an effort being often made to transport the



FOLK AND RELIGIOUS DANCES

vearing peshwaz and dupatta. The mustiderang 2 Denoer of Southern India-Dancing esso Tanjore, Madias The preso callexa sas by a offed danlers. 5 Dance of A. Defiela shine, 6 Stare denoe Malesva a tempe, Bezwada Madras, 16th century 7. Dance of Siva (N 16th-17th century copper image 8 Dance of 17th-18th century Southern dan copper 9 dance om a Mugha paring ata his ry braket fig ra, Palamp Mysola 12th-13th century chous nan 18th century Raput paring

DANCE



DANCE 19

The dramat c dance was or g nally taught by actors themselves unt I about the beginning of the 18th century when it became an independent profession. The poneers of that profession in Tokyo were Den o Shigayama, who was originally an acror, Kwamber Fujima and Senzo Nishikawa, each the founder of his own school or style, followed by other masters who formulated styles of their own, each with a number of followers. The most influential styles of dancing in Tokyo are Fujimu-ryu, Hanayagaryu, and Wakayagi-ryu (ryu meaning style or school). Those of Kyoto are Inouye-ryu and Shmozaki-ryu, those of Osaka are Nishikawa-ryu, Yamamura-ryu and Umemoto-ryu, while Nagoya 15 dominated by Nishikawa-rvu. Broadly speaking, the dances in vogue in Tokyo are those with a dramatic element, being bold and active, cheerful and witty in style, more fitting to be performed by men on the stage than in a room, while those of Nagoya, Kyoto and Osaka, which lay great stress upon the grace and charm of movement, are more appropriate to be seen in a room than on the stage, and performed by female rather than male dancers

According to a rule, the dancer begins at a point one step behind the centre of the stage, and brings the dance to a close at the centre with a stamp of the foot. The first step is to be taken with an "active" effect and the last with a "passive" feeling Generally the dancer in the course of the performance, describes a shape of a folding fan, which symbolizes prosperity as it spreads out toward the end. In pose, the face or the head of the dancer is considered to stand for heaven, the shoulders for the earth, and the waist for the man, indicating the three most important points to be considered in the dancing, and suggesting the relation of the one towards the others in the order of the universe. However, all parts of the body are used to make the dance well balanced, graceful and effective. While limbs, chiefly arms and hands in an endless variety of graceful sweeps and powerful flourishes, are mainly rehed upon for the rhythmic movement, the waist keens the equilibrium A fan or a tenugui (scarf) is often used in dancing, being manipulated to suggest all sorts of things as the occasion may require. To give a few examples in common practice an open tan raised gradually in front signifies the rising sun; used in a drinking attitude it may represent a wine cup, a closed fan may be used to suggest a stick a bow, an arrow, or a gun. etc; a scarf may be doubled and thruse into the sash to indicate long and short swords worn by a samurai, when redoubled and held on the palm in a smoking attitude it may serve as a pipe, or it may be made to describe running water by holding one end of it and giving it a quick succession of jerks from one side to the other.

It has been the ideal of some great master dancers of Japan to give the dance dignity refinement and charm by investing it with idealistic, rather than realistic, quality, to make it suggestive, rather than merely explanatory; to create an interesting design, rather than a conglomeration of decorations. The dance of Japan is unique in many respects, and rich in beauty and tradition as the cherry blossoms that adorn the country in spring (See Theatre, No Drama, Japanese Architecture; Pantomime, Fans)

INDIA

The Dramatic Dance.—Dancing and the drama in India are inseparable. The same words nata. natī, actor, actress, also designate dancer, danseuse, and a theatre (nātya-fālā, veśma) is equally a dancing stage. The classic Indian theatre is a thing of the past, with perhaps some exceptions in the south, but its technique survives in the modern "nautch" (nāa). Dancing is of three sorts, according to the content, and two according to style. Natya is dancing used in a drama (nāṭaka) as part of the plot (the word nāṭayati, "gesturing," or "acting as if," is a regular stage direction whenever a particular action or mood is to be portrayed), nitya is dancing that expounds a theme by means of explicit gestures: nitta is dancing to music, but without a definite theme, and includes folk (defī) dancing. The first two are of the same character. Beyond this, tāndava is a masculme and '1, ':' i' of dancing; lāsye a femiñine and graceful style.

The dance n is higher forms (riya) as distinguished from merely decorat e, and .rom the folk-dance, is a sort of paniomime in which a story is told, or events or persons alluded to, by means of formal gestures (angikabhinaya) presented in a rhythmic sequence and accompanied by singing and instrumental music, it is a kind of visible poetry with a definite meaning Treatises on dancing are essentially dictionaries of gesture defining certain positions and movements of the head, neck, eyes and, above all, the hands; the latter are particularly used to convey explicit meanings, the head and eyes to express emotions. A single 'hand," for example, the 'flag" (patāka) hand, in which the fingers are extended in contact as when giving a slop may have twenty or more meanings, depending on the way in which it is moved or the position in which it is held, and on the context of preceding and following "hands.' In this kird of dancing the movement of the lower limbs is restricted to a quite subordinate rhythmic accompaniment; the dancer may indeed be seated.

The dance is accompanied by singing (by the dancer or by a chorus) and by instruments (usually in the north a sārangī and drums, in the south a tambura and drums). The whole course of the dance may be summarized as follows 'The song should be sustained in the throat, its meaning must be shown by the hands; the mood must be shown by the glances, rhythm is marked by the feet. For wherever the hand moves, there the glances follow; where the glances go the mind follows, where the mind goes, the mood follows, where the mood goes, there is the flavour 'Coomaraswamy and Duggirsla. Mirror of Gesture.)

Dance Songs.—The songs of bayaderes are the lauds and songs of devotion of classical poets; the theme of their dances, the deeds of Krsna, and the interplay of hero and heroine with their activity. All conditions in India are penetrated and support the dancer while dancing and forming the theme of the dance, may be quoted the first from northern India (Mathurā), the second from the south (Tanjore), the third with an antiquity of a millennium and a half

THE LONELY WIFE

Left all alone, my darling gone to another land, how can I pass the days and rights?

Left all alone, wringing both her hands, left all alone. The rainy season has begun, the lightning flashes, the night is dark, left all alone.

Senseless is my darling, my bed lies empty, left all alone?

It should be explained that it is usual to abandon warlike operations during the rainy season; hence, if a man has not at that time returned, the suffering of the woman left at home is intensified by every reminder of the time when he should have been expected. In the actual dance, which is one of those that can suitably be performed seated, not only is the emotional experience clearly expressed, but the rain, the lightning and the dark night can all be represented

The words of a Tanjore song are descriptive of Visnu.

Is he the great being who ndes on Garuda?
Is he the great being who sleeps on a snake?
Is he the great being who lifted Mt. Govardhana
upon his little finger?
Is he the great being who assumed the form of
the Fish Avatar?

The avatārs of Visņu are then given successively.

The words of Mālavikā's dance in Kālidāsa's classical Sanskrit play, the Mālavikāgumstra (Act 11.) are as follow:

My beloved is hard to obtain, be thou without hope with respect to him. O my heart! But lo, I feel a throbbing in the outer corner of my left eyel;

But lo, I feel a throbbing in the outer corner of my left eye!; How then is this man, seen only after a long time, to be won? My Lord, reflect that I am devoted to thee with ardent longing!

The profile of the control of the gestures the control of the control of the control of the gestures.

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pers makey. Acethetic experience, from the Indian point of view, to the work of the speciator will that the artist can do is to provade the conditions. The cance is in no why strange or exotic to the Indian audience his continuous rhythm, which can be more, nearly paralleled in Western art by the music of Bach than by that) of Beethoven, leads the spectator not away from himself, but far man himself. It is just because the visible speciacle is not insisthence of successive dunces change, but with every hour of the cardance with a well-understood convention. It is not this varia- | with her arms in the position taken at the end of a dance tion bewever that explains the lack of monotony: that is due to a quality inherent in the art itself, whereby the spectator loses consciousness of the passage of time. It will be understood that this is not an art which can be transported to a foreign land, and perhaps the only opportunity that Europeans in Europe have ever had to muness criental dancing was when King Sisowath brought his Cambedian dancers to Marselle and Paris.

Aesthetic Experience.-Mention has been made above of dayour in Indian aestherics Flavour (resa) is that emotional quality which distinguishes a work or art from a mere statement, and aesthetic emotion from the emotions experienced in daily bie To the Indian the dance, like any other art, has a spiritual significance independent of its theme or charm, for "by clearly expressing the flavour, and enabling men to taste thereof, it gives them the wisdom of Brahma, whereby they may understand how every business is unstable; from which indifference to such business, and therefrom, arise the highest virtues of peace and patience, and thence again may be won the bliss of Brahma"

The so-called oriental dancing of the European stage is in almost all respects unlike the dancing of the East where, for example, the dancer is always more, and not less fully clothed than are other women in daily life, and where if there he in the dance some erotic allusion, this not only has a definite significance, but is made in such a way as entirely to escape the notice of a western addience The movements of the so-called oriental dancers of the West are indeed sinuous; but the fluidity of castera movement is something far more than this. It is not even serpentine, but more like the wreathing of smoke. Nothing in India corresponds to the ball-room dancing of Europe and America; the mused dancing of this kind is shocking to Indian ideas of

Education.-Dancers (female) are to a certain extent trained Plate L. figs. 3 4) by performers of their own caste and sex, our more especially by male dancing-masters, Brahmans, who are familiar with the literature as well as the practice of the art. Ganadasa speaks of the art as "a pleasing sacrificial feast to the eyes of the gods . and the one chief amusement of human beings." He exhibits his pupil Malavika before the king, queen and certain courtiers. Her performance is adjudged perfect in the fellowing terms. "All was blameless, and in accordance with the rules of art; for the meaning was completely expressed by her [scper] limbs, which were full of language, while the movemens of her feet was in perfect time, and she represented the tapeds to perfection. . . . In the successive developments of the sering, emetion kept banishing emotion from its place, it was a vivid picture of a series of passions" (Māldrikāgnimetra, Act it)

As surement of the enterstion of a descer is found in the Tamil be specification on the Sec. site and in her fifth year by means et de transmisse decre and the little a horizontal rod, wound that the transmisse decreases and the leaves, etc., and the first term of the star banted by the instructor in Latin and Theat at the same time the instructor house of the steps

hegun in her seventh year, and must last at least rive years. The theoretical part is usually given by a Brahman teacher the practical exercises by an elderly and retired danseuse. In her twelfth year the pupil may appear in public and the teacher receives a renard.

Domingo Paes, writing about 1520, describes a room in the Vijayanagar palace in which the royal dancers practised and perent nor something to be cariously observed, but something that formances were given. On one side was a painted recess where perstrate beyond the threshold of consciousness to the inner the women cling on with their hands in order better to stretch warfil of each beholder that it can be watched for many hours and loosen their bodies and legs' Presumably there was a honwithout frique Circumstantially of course, the dance is more zontal rod against the wall, like that used by modern ballet-Fire than at first it seems to be for example not only do the dancers for practice. At the other end of the room was the place occupied by the king during a performance, and in the middle of zight the modes of the accompanying music must change in ac- the wall was a golden image of a woman, or rather girl of 12 years,

Generally speaking, the costume of a dancer does not differ markedly from that of local fashion, except by its greater richness. One part of it the bells, however, is special and essential. a string of these, a hundred or two hundred in number, is bound round the ankles at the time of dancing, and the sound of these bells, as the dancer moves her feet in tune, forms part of the music. When the dancer ties them on before dancing, she will invariably touch them to her eyes and forehead and murmur a brief prayer, and those who are learned in the lore of dancing say that 'that dancing is vulgar and mauspicious which the actress does not begin with prayer

Like other vocations in India, that of music, dancing and acting is in the main an hereditary profession. There have always been and still are some Brahmans and others of high caste who are expert both in the theory and practice of music, but the profession as practised by members of special castes has always had a low social status. At the present day the "Anti-Nautch movement represents an endeavour to boycott the professional dances on puritanical grounds (with reference to the morals of the dancers, not to the character of the dance) It is desired to banish the danseuse alike from private and public entertainments and from all connection with temple service

HISTORY OF THE DANCE IN INDIA

Vedic Dances.-Ritualistic dances are mentioned in the Vedas Thus in the Mahāvrata ceremony, women celebrate to the sound of the lute the patrons of the ceremony, maidens dance round the fire with water-pitchers while the Stotra is being performed They pour water on the fire, an act of sympathetic magic intended to produce rain and the song shows that they desire richness in milk, as well as water for the cows At the close of the Horse Sacrifice also girls dance round the Marjaliya fire with waterpots on their heads, beating the ground with their feet and singing "This is honey" They are said to endow the sacrificers with might. Again, four or eight women dance at the house of the bride, at a wedding

The word iyat in the Black Yajur Veda refers to the accomparament of recitation by pantomimic gesture, the Nata Sūtras mentioned by Panim must have been handbooks of gesture, analogous to the later works on abhinaya

Dancing as a Court Function.—In the Buddhist and Epic periods, dancing is well known as a normal court function and as a means of paying honour to a king or distinguished guest. Thus the festival of the gods takes place in Indra's city, he is host, and the other gods come and take their seats in due order as spectators of the dance of the Gandharvas and Apsarases. The gods themselves may sing and dance in honour of a human saint, but the dancers and musicians proper are the Gandharvas and Apsarases The latter are beautiful girls, often employed by the gods to seduce the great saints from their meditations, for which there is a parallel in the Buddha legend in the attempted seduction of Gautama by the three daughters of Māra, who dance before him More often the Apsarases are simply the dancers in heaven, by whom the gods are entertained and honoured Equally characteristic was the keeping of troupes of dancers at royal courts on earth. . Whatever the social status of professional dancers may always The and despite the fact that the art like others is an DANCE 2 I

he Gup a and med aeval per od was also an ar s ocrat c accompichment affoding in this respect a paulel to the state of pa nt ng at the same time

Dancing as an Accomplishment.—Dancing and music as a royal accomplishment may be illustrated by the following examples In the Divyavadana (Cowell and Neill, p 544 et req) King Rudrāyaņa plays the lute (vīnā) while his wife Candrāvatī dances; the Gupta emperor, Samudragupta, had coins struck in which he is represented as seated and playing on the lyre or lute, while an inscription of the same great monarch at Allahabad records his skill in music Kālidāsa represents King Agmivarman as competing with actors in their art. In Devendra's Uttaradhyayana-tıka (Meyer, Hındu Tales, p. 105) Kıng Udâyana plays on the lute while his wife dances, but drops the plectrum of the lute, al which the queen is angered and asks "Why have you spout the dance?" In the Mahavamsa, ch lxii. v 82, 83, Parakrama Bahu I. (of Ceylon) is said to have built a theatre beside his palace "that so he might listen to the . singers, and witness the delightful dance," while his queen Rupavati, who was young and beautiful, and an embodiment of all the traditional virtues of a Hindu wife "was skilled in dancing and was richly endowed with a mind as keen as the point of a blade of grass." These instances will suffice to show that the modern prejudice against dancing as an art to be studied by persons of honourable social status has no foundation in classic tradition

Dancing as a Religious Office.—Still more interesting is the ritual service of dancing in temples. The proper occasions of dancing are testivals, celebrations, processions of men or gods, marriages, reunion of friends, first occupation of towns or houses, the birth of children and similar auspicious events. The dance is essentially an honour paid to the chief guest and particularly to kings. Now the daily ritual or service performed at the shrine of a deity is essentially the same as the daily service of a king, and it is therefore only natural that dancing before the shrine should form a part of the regular morning and evening offices. At wealthy shrines a considerable number of Devadasis ('women servants of the deity") are permanently attached to the temple both to perform this office and to take part in the dramas which are presented in the temple on certain holidays. This practice has survived in southern India to the present day, but we have earlier records of it on a more layish scale (N M Penzer, The Ocean of Story) Inscriptions of Rajaraja and other of the Cola kings (in the Tanjore district, at the beginning of the 11th century) refer to theatres and the establishment of large numbers of dancers in connection with temples, and for this purpose we find that private as well as royal endowments were made. Thus the assembly or town council of Sattanur gave lands for the maintenance of Sanskrit plays, Rājarāja brought from other temples and settled at Tanjore as many as 400 dancing girls, Kulottunga III appointed an additional dancing-master in the temple who had to dance with gestures. The entertainment of the god enshrined is modelled upon that of a god in his heaven, and that of a king on earth

DANCES OF THE GODS

The Veda knows of gods who dance; thus, in Rigueda x, 72, we have a creation hymn in which the gods, dancing apparently m a ring, set up a rhythmic flux in the primeval waters, and thus magic dance sets all nature in motion

When there, O gods, ye stood in the primeval sea, holding each the other by the hand, then rose from you as dancers (nrtyatām iva) clouds of dust

Indra is also said to appear as an aged dancer, as a presage of victory in battle, Usas, the Dawn, is called a dancer adorning herself But none of these conceptions of a dancing god or gods seems to have had the importance later attained in the case of Siva, who as the divine dancer par excellence is known as Natarāja

Dance of Siva .- We find an invocation (commencement of the Murror of Gesture) addressed to Siva, the great patron of the drama and an actor whose gesture is the world process, whose he was very fond. But the most significant of his dances is the

almost purely prote siona voca on t s certain that dancing in spe h s the sum of all languages and whose ornaments are the moo and tars. His dances are tandava dances, energetic and virile The most significant is the nadanta, represented in the wellknown south Indian metal images of Nattaraja (Plate I, fig. 7) The significance of this dance is often alluded to in the mediaeval Sarva literature Our Lord is the dancer, who, like the heat latent in firewood, diffuses his power in mind and matter, and makes them dance in their turn" More specifically, the dance represents the deity's five activities (Pañcakriya), viz, the world process of creation or evolution, maintenance, and destruction or involution, the embodiment of souls and their release from the cycle. The drum in the upper right hand stands for creative sound, the flame in the upper left for the fire of destruction or change. It should be understood that in Indian mythology the cosmic process is conceived as a succession of vast cycles of manifestation and non-manifestation, or creation and destruction; and also that the phenomenal world at all times is one of perpetual change involving perpetual creation and destruction. The dance is the entire process in all its complexity, and it is only rightly apprehended when it is realized as taking place within the worshipper's own consciousness Siva is also called Sudalaiyadi, Dancer of the Burning Ground (cemetery), and the heart of the lover of god, made bare of all else, is this bare field prepared for him The same idea is met with in connection with the goddess in the torm of Kali

> I have made a burning-ground of my heart That Thou, Dark One, haunter of the burnung-ground Mayest dance the eternal dance therein.

Siva also performs an evening dance on Mt. Kailasa, before the assembled gods and the goddess, and paintings of the subject are known. The elephant-headed deity, Ganesa, son of Siva. is also spoken of as taking part in this evening dance, and is represented in sculpture as dancing. It is probable that most of the dances referred to above belong to the non-Aryan and ancient Dravidian elements in the personality of Siva-Rudra. The tandava in particular, and the dance of Kali, must have been originally orginatic dances, later interpreted in a philosophical and mystical sense. The principal "primitive deity" in Ceylon, Gale Yakâ, the God of the Rock, is worshipped by an annual dance on the summit of the rocks sacred to him, with which may be compared the ritual dances of south Indian hill-men in honour of Murugan.

While every Saiva temple in southern India has a copy of the metal image of Šiva as Nattarāja kept in a special Hall of Audience (sabhā-mandapa) at Cidambaram, he is worshipped in this form as the principal deny; here in the Golden Hall (kanakasabhā) is the premier Natarāja image of the south. The western and eastern gopurams of this temple, dating from the 13th century, contain sculptured panels with accompanying text, illustrating no less than 93 of the 108 dancing poses described in the Bharatīya Nātya-śāstra

Dances of Other Deities.—The elephant-headed deity, Ganapati, son of Siva, is a patron of the stage and himself often dances. In Buddhist art numerous feminine divinities, corresponding in a general way to Kālī of the Hindu pantheon, are represented as dancing. Dances of victory are attributed in the Silappadigāram to Subrahmanya, the god of war According to the commentator, Adıyarkunaliar Subrahmanya, having slain the demon Sürapadmāsura, danced his war-dance of triumph on the heaving wave-platform of the ocean-stage, to the accompaniment of the rattle of his drum, and subsequently danced in derision of the flying demons the kudazkūttu, or umbrella dance. This dance is still sometimes performed during temple processions, when the god's umbrella-bearer cuts some capers with his unwieldy parasol borne before the deity Other familiar dances of a deity are those of Krsna, the cowherd incarnation of Vișnu. One of these is the pot-dance (kudakūttu), originally a pastoral folk-dance, but used by Krsna as a dance of victory after the defeat of Banasura Another dance of victory took place after the poisonous dragon Kāliya finally had been overcome Krsna is again often represented dancing a childish dance with a pat of butter, of which *** - * rolls of ression a round dance in which the or light is took part on moonly nights beside the Jamna.

FOLK DANCES

Fok dances (de ? re.. countrified') still are and no doubt have always been round all over India; among agriculturists and in primitive tribes everything is celebrated and solemnized with the cance. It should be observed that as Cos Hodson has remorest, primalive editure is the matrix of the higher, thus the loss armes cure not only an interest of their own, but also they snowled the marerial from which the dances of the aristocracy and of the higher ritual are derived. Indeed, there are many folk dance which ruse their appearance in the most artistically sundistinule i sparces as derces de divertissement. Before refer-The to these however, we shall discuss the dances of the people m their original environment.

There are, for example, courtship dances among the Santals On full moon nights the drum is sounded and the girls assemble under a mg banyan tree, their dresses decorated with flowers in spring, with feathers in winter. Meanwhile the young men with a banner and musical instruments gather in the rice-fields beyond The garls do not seem to see them, but are chattering together and completing their toilet. Then the banner and drum come torward, the young men approach the girls, who stand in a row, linked to pairs, arm in arm. The guls sway to and fro with the music, bending and rising, they advance and retire, but never actually mix with the young men. It is only after the dancing that young men and women have any opportunity to meet and court. The Santals have also their decorative dances de diverinstance; for example, "the gathering or indigo," and 'the quarrelime of co-wives

In Bengal there is a women's ritual dance never seen by men, the drumsper remaining behind a curtain. This takes place during the Indra-puja festival on full moon nights. The women dance and ang eretic songs and in the morning they go down to the river and tathe.

A kind of dancing especially characteristic of southern India and Caylon is the so-called devil dance (Yakkun netume) This is a violent male dance, thus of tandava character Used primarily as a means of exercism, it is performed in cases of sickness. The possessing yakkas, regarded as demons causing disease, are first invited by peat of drum to attend the performance; afterwards, having been thus entertained, they are asked to take their departure.

The Nongkrem dance, one of the greatest festivals in the Khasi hills is an essential part of the goat sacrafice performed by the Sign of Nongham. "the sacrifice is followed by twenty-two men armed with swords and cowries (fly-flaps). Having danced before the aker, the party returns to the house of the Siem priestess and executes another dance in the great courtyard. . . . Then follows a great dance of girls and men in front of her house . . . then there is the dance of the men. . . . After gyrating for some time two men at a time rapidly approach one another and clash their swords together in mock combat. . . Dancing forms part of the ceremony of placing the ashes in the sepulchre of the clan" With the last feature may be compared the henouring of the body of the Baddha before the cremation, with song, dance and music, as mentioned in the Makaparinibbana Satta.

Prinsitive dances are often symbolical enactments of events which the people desire to be successfully accomplished "The Bhile danced at their festivals and before battles. . . The object was in obtain success in builtie by resing through an imitation of a the series of diverse. The Source of Greek d Bugger in which they sections the house of the crapil aim of come og serren inn stille tot i se d'of est en en d'of est en en en en el en en en el en e

the every many

language (Col. Hodson. Primitive Culture of India).

It is by no means unusual to meet with the folk dances in the environment of the higher culture. The Sangīta Ratnākara, an authoritative work on music and dramatics, enumerates 10 varieties The Tamil Silappadigaram enumerates 14 dances of which the majority are for use at the Indra Puja festival, and of these several, such as Kottavar's dance with a rice measure, are of folk character We also meet with these folk dances on the classical stage, as in the Karpūramanjari of Rājaśekhara we have a circular dance performed by girls, another in which the dancers face each other in two rows, and also the stave dance (danda rāsa) referred to above This danda rāsa, in which the dancers hold short staves in each hand, striking them against those of the neighbouring dancer alternately to right and left, is also fre quently depicted in decorative temple sculpture (fig 6) The rāsa-mandala and other dances of Krsna with the milkmands of Brndaban are of folk character, being constantly represented in paintings of the Raiput school, and are typically circular dances in which the figure of Krsna is multiplied. Not infrequently Kṛṣṇa and Rādhā occupy the centre of the field, whirling round with feet together and leaning apart with hands clasped at full

with feet together and leaning aplit with hands chasped at full arm's length.

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MODERN DANCING

The first three decades of the 20th century have been remarkable in the development of ballroom dancing, as well as the ballet (qv) and other forms of stage dancing. This may be attributed to a number of things, but more especially to a certain freedom in "steps" and a greater variety of dance music.

The Steps.—Ballroom dancing has, for the most part, become less complicated and more digmined. The best dancers are those who apparently dance with no effort Dance floors are more crowded, and to-day there is no room for the grotesque antics displayed by the Grizzly Bear, Bunny Hug and Texas Tommy popular in the first decade of the 20th century The exaggerated swaying of shoulders, the complicated steps, the violent exercise and noticeable efforts put forth in dancing, all are out of place to-day. The feet are kept close to the floor, the shoulders maintain their natural position, the extended arm is not pushed forward and back, or "pump-handled" up and down, and, with a graceful ease of manner, very few "steps" are necessary. With a group of couples on the ballroom floor, there is no longer that of action, that ----ty of conforming with the other descris in a particular "step" that is determined by the mus c There may be just as many variations in these few simple steps - 正式変化

as there are lord A what he



ATER COMPANY PHOTOGRAPHS (I) LENARE LTD , FROM C 8 COCHRAN S 1928 REVUE (5) GUTTEMBERG FROM C

BALLROOM AND EXHIBITION DANCES

ballroom during the 60's (as danced by le in C B Cochran's 1928 revue) rgentina, this dance is widely used as an nited States but has never become popular

- of the second decade of the 20th century oc all purposes and was eventually used for
- 4. The Castle Walk, named after Vernon and Irene Cas variation of the one-step and is danced to one about 1913-15 it was the most popular form of ing was its sole feature, but one walked on one if starting to skip, instead of coming down on the
- 5 The old fashioned waltz showing costumes designed
- 6 The Two step, showing the proper position for ballro



ITER C CASTLE NO LAUGHLIN

PS IN MODERN BALLROOM DANCING AS DANCED BY IRENE CASTLE /

square step in the fox-trot, the most popular of modern ballnges. It was first danced widely in 1900, although it was an tir of carner negro music. The fax trot is danced in the and may be played in two distinct tempos the slow foxtish is most frequently used, and the fast fox-trot 2 Start of walk in the one-stap, a popularity in modern social de fox-trot, being faster, but the it consists chiefly of walking for added occasionally to aid in turn DANCE

The One step and the Fox trot are the most popular dances he latter being used tar neves of a yo her dance but a remark ably wide variation is practised in these simple steps. Such a tendency toward less athletic steps has meant a greater attraction for the ballroom and consequently a steady growth of incerest in modern dancing The second decade of the 20th century saw a more complicated programme, such as the Hesitation Waltz the Maxixe (which never should have been done except as an exhibition dance) and the Tango The latter seemed ideally suited to the ballroom but never gained a firm footing in America Originating in Argentina it seems dependent upon the Latin temperament for success. Dancers in the United States were intrigued by it and tried in every way to master it, but somehow never caught the rhythm and proper swing

The Charleston created more of a furore than any dance brought out in recent years, but again did not prove suitable to the ballroom floor and consequently died out almost as suddenly as it appeared. The dance was not new, having been performed among the negroes of the Southern States for years, and being brought to the front by an enthusiast who saw in it great possibilities as a stage attraction. It was never graceful, and decidedly too energetic to be included in modern ballroom dances. The same may be said of the Black Bottom Even as an attraction suited only for the stage, it created considerable adverse criticism because of its suggestive qualities when executed according to the original dance. Both these dances were really more talked about than danced, but for a short while they gained world-wide fame Like most fads they were more harmful than constructive, and have little to do with the history of the dance

The Fox-trot, an outgrowth of negro music, and earlier connected with such names as Ragtime, Blues and Jazz, has been danced since about 1913 and is firmly established in the programme of modern dances It is typically American in rhythm, is danced in 4 time and played in two distinct tempos-slow fox-trot, perhaps the more popular, and fast fox-trot. The predominance of this as a modern ballroom dance calls for a simple

description of how it is performed

As in all ballroom dances, the lady faces the gentleman with her left hand resting lightly on his right shoulder, his right arm encircling his partner and the hand placed in the middle of the lady's back, just below the shoulders The gentleman's left arm and the lady's right arm are extended with elbow bent at such an angle (see Plate II) as to avoid the stiff arm, "pump-handle" appearance A springiness in knee and ankle is essential, and to acquire grace and ease one's weight should be placed on the ball of the foot. The key-note or foundation of the fox-trot, as well as the one-step and waltz, is the square step, taught to beginners. With an intimate knowledge of it, one can dance all three of these dances by only adopting the proper tempo

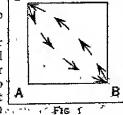
and adding a few simple steps for variety

First, one should master the square step

without turning.

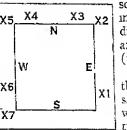
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Draw a chalk-line square on the floor (fig 1), and stand in the lower left-hand corner, A, place the right foot in the lower right-hand corner B; draw the left foot up



to it and then step forward with the right foot to C, swing the left foot in an arc to D. Fig. 1 (indicated by arrows) draw . 'c illli free cross of sten back on the left foot to A, swi = 4 ' reta or 1 can he arc to B (indicated by an Control of the Conor reproved to all before, and continue as at three tempos, facing in onlearn to turn while doing i. I rater t ליים ברותים ברותים ליים ברותים ב precise while learning this face each of four walls in it, rung, later merupa in those have turns mote elastic. Now go through i'm spiftre thep care where on the plan just given and accountant in which the programmer Tables of the same

XI using he body so as o tace E. The left foot goes o X and the rght foot daws up to it the e oot back slightly turns to 13 o as to wing the body around o a position falling S and right foot goes over to X4, the left foot drawing up to it, the right foot forward to X_5 , the left foot over to X_6 , with the body facing W, the right foot draws up to the left foot, which then goes back to X7 Now step out on the right foot to SE corner and continue the square turn. To reverse, perform this same



F1G 2

square step with the turn in reverse, starting out by stepping directly to the left drawing the right foot up to the left foot, and stepping forward on the left foot (turning in the opposite direction).

After the beginner has learned to dance the square step gracefully the rest is simple A certain amount of walking forward and backward between square step turns comprises most of the dancing or to-day A few quick side-slides like the old

Two-step are added quite frequently, and a very pretty style of the fox-trot that has become quite popular is the old "Boston,' which was formerly performed to waltz time. The forward and backward swing to this movement is particularly attractive and graceful, and lends an entirely new note to the fox-trot. The weight is lifted on a different part of the beat placing the accent in an unusual place.

The One-step, danced somewhat less than the fox-trot, is executed to \(\frac{2}{3} \) time It is a little more violent than the fox-trot, being faster, but the steps are simpler and the tempo does not lend itself to so great a variety of movements. It consists chiefly of walking forward and back with a square step added occasionally to aid in turning. Anybody who can walk can one-step, but a sense of rhythm to keep time to the music is essential The author has always maintained that it matters little what the dancer does with his feet, so long as he keeps time. Nothing is more agonizing to a good dancer than to be forced by the partner to dance out of time with the music

The Castle Walk is sometimes danced to a one-step. It is to the one-step what the Boston is to a fox-trot, depending on the change of weight or the accent of the beat. From 1913 to 1915 it was the most popular form of the one-step. It looked ridiculous at first, but was such fun to do that it spread like magic throughout the dancing world Walking was its main feature, but one walked on one's toes, lifting up (as if starting to skip) instead of coming down on the beat, giving a childish, carefree swing that was irresistible. The lady partner went backwards most of the time, and the square step was not needed, dancers rounding the corners like an aeroplane banking a turn. It required considerable room, but was of such a joyous motion that it produced no end of merriment It was originated by Vernon and Irene Castle

In 1928 many of the old dances were revived in London, and during the course of an evening such old-timers as the Polka, the Galop and various forms of the barn-dance were performed The revival met with considerable enthusiasm in London, the ensemble dance producing an act that was both novel and amusing

The Music.—The traditional dance band of strings and piano has been supplanted by the "jazz" band to a great extent, especially in the United States. This consists of various combinations, the most common of which is piano, violin, saxophone, banjo and trap ci... I ne co e rees a side-drum, à bass drum and cymbals prived with the man and various other instruments on which he 1.22 . 7 ... (10 w '1 b) drum-sticks in alternation with the side-I' up the problem of the ensemble. The or of second one impetus in dance orchestras resulting an .: - 114 (b) r . - 10 Le part of the different players in extempotune · Broadcasting stations assign certain calledge or real BERTS LEE CRE'LE and the effective a great watery of pursion to the bome (L C McL)

Diving, instant and Majern (London 1911). L. Pound, Postic Topologoum, the marsh dended former and the Bland New York 1921); L. C. Wimberly, 'Minder in Language,' The Dence," Live of Near Studies in Language and the outer bracks of its involution of the Common of the Addis P. Opps, The Birds 'Am H.st. Survey of Dancing in Europe Lancin, 1912. Wheren D. Humbly, Tribal Dancing and Social Devols potent London, 1921, Indian-American C. Wisder, "General Discussion of Shamanistic and Dancing Societies," Amer Museum of Nat. Hist. Indian Paper vol. is, p. 853-976 (New York Line) Example E. B. Hawkes, "The Dance Festivals of the Alaskan k-km, Unis of Pa Interopological Pub vol. vi., no. 2 (Philadella, 1914) 1, 4 Dancing and Dancers J. E. C. Flitch Modern Divers and Dancer Landon, 1912, Caroline S. and C. H. Conin. Drivers and Leaver, of Today (New York, 1912); Vernon and Irene 1 York Modern Bankane (New York, 1912); Vernon and Irene 1 York Modern Bankane (New York, 1914); Ted Shann, Ruth St. Drew F. moor and Prophytican Francisco, 1920), M. N. H. Doubler, 1916, 1917, 1918, The Dar e (New York, 1925). Ted Shawn, The American Ballet (New York 1406). General: A L and Lucie P March The Dance in Lineafor (New York, 1924), E A. Dukson, edit Poems of the Datas (Na. Vots 1125)

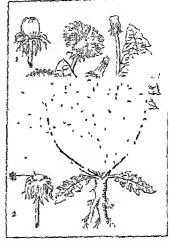
DANCOURT, FLORENT CARTON (1661-1725). French dramatist and actor, was born at Fontainebleau on Nov 1, 1661 In 1633, in spite of the strong opposition of his family, he appeared at the Theatre Français. One of his most famous impersonations was Alceste in the Misonthrope of Mohère. His first play Le Yoteure obligeant, produced in 1685, was well received Le Désouarun des joueuses (1987) was still more successful. Le Chevalur a la mode (1587) is generally regarded as his best nork though his claim to original authorship in this and some other cases has been disputed. In Le Chevaher à la mode appears the coargeone infatuated with the desire to be an aristocrat. The type is developed in Les Bourgeoises à la mode (1692) and Les Buurgeoises de qualité (1703) Dancourt was a prolinc author. and produced some 60 plays in all. He died on Dec. 7, 1725 The plays of Dancourt are faithful descriptions of the manners of the time and as such have real historical value. Most of them incline to the type of farce rather than of pure comedy. Voltaire defined his talent in the words. 'Ce que Regnard était à l'égard de Mohère dans la haute comedie le comédien Dancourt l'était dans la farce

His two daughters, Manon and Marie Anne (Mimi), both obtained success on the stage of the Théatre Français

See Oeuvres complèses (12 vols. 1760); Theâtre chast, ed F Sarcey (5 vols. 1884) Also J Lemaître, Lu comédie après Mohere et se theâtre de Dancours (2nd ed., 1903)

DANDELION (Taraxacum officinale), a perennial herb belonging to the family Compositae (q,v). The plant has a wide range, being found in Europe, Central Asia, North America, and the Aretic regions, and also in the south temperate zone. The leaves form a spreading rosette on the very short stem, they are smooth, of a bright shining green, sessile and tapering downwards The name dandelion is derived from the French dent-de-lion, an appellation given on account of the tooth-like lobes of the leaves The long tap-root has a simple or many-headed rhizome, it is black externally, and is very difficult of extirpation. The flowerstalks are smooth, brittle, leafless, hollow and very numerous The flowers bloom from April till August, and remain open from hve or six in the morning to eight or nine at night. The flowerherds are golden yellow, and reach 11 to 2 m. in width: the florets are all strap-shaped. The fruits are olive or dull yellow in colour, and are each surmounted by a long beak, on which rests a pappus of delicate white bairs, which occasions the ready dispersal of the truit by the wind; each fruit contains one seed. The globes formed by the plumed finits are nearly two inches in diameter. The involume consists of an outer spreading (or reflexed) and an inner and erect now of brasts. In all parts of the plant a milky juice is present. The suct externally is brown and wrinkled, internally wate, with a yellow centre and concentric paler rings. It is two inches to a foot long, and about a quarter to half an inch in chameter. The leaves are bitter, but are sometimes eaten as a saish, they serve as food for silkworms when mulberry leaves are not to be led. The root is roasted as a substitute for coffee Several varieties of the dandelson are recognized by botanists, they differ in the degree and mode of cutting of the leaf-margin and the erect or appreading character of the outer series of bracts

beaked fruits and more deeply



DANDELION, SHOWING THE LEAVES THAT ARE EATEN AS SALAD THE ROOT IS USED FOR MEDICINAL PUR-Poses

1 Unopened head 2 Ripe head, from which all the winged seeds except two have been removed

sight (the story that he had b Manuel Compenus while he wa he proved a most energetic and Venetian authority over the D. the king of Hungary's protectio owing to the arrival of the Pisan defeated by the Venetians, the the meanwhile the Eastern emp deposed, and the new emperor I netians Dandolo therefore listi saders who asked Venice for fre port. Dandolo subsidized the promise that payment would be aside and assist him in the red commanded the expedition, and then induced the crusaders to son, Alexius, for the dethronem fleet wintered at Zara, and then, for the Bosporus For the car and the erection of the Latin er

Immense booty was secured other treasures the four bronze St Mark's Dandolo was one a throne of the new Latin empire was elected and crowned on M Crete and several other islands formed an uninterrupted chain large part of Constantinople (wi 'lord of a quarter and a half o privileges. But hardly had the various provinces rose in rehe Thrace A Latin army was defe 1205), and the emperor hims fragments of the force being ; But he was now old and ill, and

Enrico Dandolo's sons distir service, and his grandson Giova The latter's son Andrea comn war against Genoa in 1394, and prisoner, he was so overwhelm u cide by beating his head agai

Navagero) Francesco Dandolo, also known as Dandolo Cane matters of dress, and the Prince Regent is said to have wept when was doge from 1329 to 1339 During his reign the Venetians he disapproved or the cut of the royal coat Around the Beau went to war with Martino della Scala, lord of Verona with the result that they occupied Treviso and otherwise extended their possessions on the terra firma Andrea Dandolo (c. 1307-1354) the last doge of the family, reigned from 1343 to 1354. He had been the first Venetian noble to take a degree at the university, of Padua, where he had also been professor of jurisprudence. The terrible plague of 1548, wars with Genoa against whom the great i naval victory of Lojeia was won in 1353, many treaties and the subjugation of the seventh revolt of Zara, are the chief events of his reign. The poet Petrarch, who was the doge's intimate friend, was sent to Venuce on a peace mission by Giovanni Visconti, lord of Milan "Just incorruptible, full of zeal and of love for his country, and at the same time learned, of rare eloquence wise, affable, and humane' is the poet's verdict on Andrea Dandolo (Varior epest xix) Dandolo died on Sept 7, 1354 He is chiefly famous as a historian, and his Annals to the year 1280 are one of the chief sources of Venetian history for that period; they have been published by Muratori (Rer Ital Script tom. xxi) He also had a new code of laws compiled (issued in 1346) in addition to the statute of Jacopo Tiepolo Another well-known member of this family was Silvestro Dandolo (1796-1866), son of Guolamo Dandolo, who was the last admiral of the Venetian republic and died an Austrian admiral in 1847. Silvestro was an Italian patriot and took part in the revolution of 1848

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DANDOLO, VINCENZO, COUNT (1758-1819), Italian agricultural chemist, a native of Venice, welcomed the advent of Napoleon in Italy (1796), and was a member of the grand council of the Cisalpine Republic at Milan From 1805-09 he was governor of Dalmatia, where he sought to improve agriculture. He died at Venice on Dec. 13, 1819 Dandolo wrote several treatises on agriculture, vine-cultivation, and the rearing of caule and sheep, and a work on silk-worms, which was translated into French by Fontanelle

), Canadian lawyer DANDURAND, RAOUL (1861and statesman, was born on Nov. 4, 1861, at Montreal Educated at Montreal college and Laval university, he was admitted to the bar in 1883. He applied himself to the local organization of the Liberal Party, and was successively from 1898 to 1909 member of the senate. Speaker of the senate and member of the privy council His chief work is Traité théorique et pratique de droit criminal (Montreal, 1890). He was president of the 6th Assembly of the League of Nations

DANDY, a word which about 1813-16 became a London colloquialism for the exquisite of the period. It is probably derived from the French dandin, "a ninny or booby." but in The Northampton Mercury (April 17, 1819), occurs the followmg: 'Origin of the word 'dandy.' This term, which has been recently applied to a species of reptile very common in the metropolis, appears to have arisen from a small silver coin struck by King Henry VII, of little value, called a dandiprat; and hence Bishop Fleetwood observes the term is applied to worthless and contemptable persons

It was Beau Brummei, the high-priest of fashion, who gave dandyism its great vogue, though it existed before his day. About the middle of the 18th century was founded the Macaroni club This was a band of young men of rank who had visited Italy and sought to introduce the southern elegances of manner and dress into England. Their costume is described as "white silk breeches, very tight coat and vest, with enormous white neckcloths, white silk stockings and diamond-buckled, red-heeled shoes." For some time the moving spirit of the club was Charles James Fox. It was with the advent of Brummel however that the cult of dandyism became a social force. Beau Brummel was supreme dictator in a few months later. In the same year after a keen struggle all

collected a band of young men whose insolent and affected man ners made them universally unpopular. Their chief glory was their clothes They were coats of blue or brown cloth with brass buttons the coat-tails almost touching the heels. Their breeches were buckskin so tight that it is said they 'could only be taken oft as an eel would be divested of his skin." A pair of highly polished Hessian bouts, a waistcoat buttoned incredibly tight so as to produce a small waist and opening at the breast to exhibit the fulled shirt and cravit, completed the costume of the tcue dandy

See Barbey D'Aurevilly. Du dandvsme et de G Brummel (1887), Sir A. Conan Doyle, Rodney Stone (1895).

DANEGELD, an English national tax originally levied by Aethelred II as a means of raising the tribute which was the price of the temporary cessation of the Danish ravages This expedient was first adopted in 991 and was repeated in 994 1002. 1907 and 1012 With the accession of the Danish king Canute, the original raison d'etre of the tax ceased to exist but it continued to be levied though for a different purpose, assuming now the character of an occasional war-tax. It was, apparently not levied by Edward the Confessor in the latter part of his reign but William the Conqueror revived it immediately after his accession, and it was with the object of facilitating its collection that he ordered the compilation of Domesday Book. It continued to be ievied until 1163, in which year the name Danegeld appears for the last time in the Rolls. Its place was taken by other imposts of similar character but different name

DANELAGH, the name given to those districts in the north and north-east of England which were settled by Scandinavian invaders in the 9th and roth centuries and in which Danish customary law subsequently prevailed. The real settlement of England by Danes began in the year 876, when a division of the great army, which had been ravaging widely over England, divided out Northumbria among its members. Next year, another portion of the same army divided out Eastern Mercia and in 880 so much of the army as remained in England divided out East Angha A similar division of Wessex had been prevented by the victories of King Alfred (q.v.), and between 880 and 890 definite boundaries were drawn between Alfred's kingdom and that of Guthrum king of East Anglian Danes The boundary thus drawn ran along the Thames estuary to the mouth of the Lea (a few miles east of London), then up the Lea to its source, then due north to Bedford then up the Ouse to Watling street at Stony Stratford From this point the boundary is left undefined, perhaps because the kingdoms of Alfred and Guthrum ceased to be conterminous here. Thus Eastern Mercia, Northumbria from Tees to Humber, East Anglu. and the shires to the immediate west and south were handed over to the Danes and henceforth constitute the district known as the Danelagh.

The three chief divisions of the Danelagh were: (1) the kingdom of Northumbria, corresponding, roughly, to the modern Yorkshire, (2) the kingdom of East Anglia, (3) the district of the five (Danish) boroughs-lands grouped round Leicester, Nottingham. Derby, Stamford and Lincoln. Of the history of the two Danish kingdoms we know very little. Guthrum of East Anglia died in 890, and later we hear of a King Eric or Eohric who died in 902. The history of the Northumbrian kingdom is yet more obscure The original Danish kingdom seems to have come to an end in 909, but within a decade this region was overrun by fresh invaders of Norwegian rather than Danish extraction, and Northumbria was not brought definitely under English rule before the middle of the 10th century.

More is known of the history of the five boroughs From 907 onwards Edward the Elder, working together with Aethelred of Mercia and his wife worked for the recovery of the Danelagh. In that year Chester was fortified. In 911-912 an advance on Essex and Hertfordshire was begun In 914 Buckingham was fortified and the Danes of Bedfordshire submitted In 917 Derby was the first of the five boroughs to fall, followed by Leicester

the trans beinging to the tourned of Normempton, as far ' children a more correct of Essex surmitted and the whose of the East Anguar Dunes out a in Stamford was the next to yield succession on one part of the Danes

Although the independent existence of the Danelagh did not i last for built a century in profoundly affected the later history of this region. It was subsequently distinguished by a large perclution of the peasant has because who undoubted'y repre-"It the decement - of the Durich sealers of the Viking age The sizes of decardnessin exception are particularly evident ic Yerkenic too the territory of the five boroughs, where land was divided acts plurghtunes and ungange instead of bides (q.e.) and variliside where the Scandinavian majentake replaces the Eralish designative; and where many traces of Ecandinavian querrods of mone any and fiscal computation survived into the muddle area. For at least two centuries the language of this region must have been a Scandinavian dialect, gradually modified by English industries from the south. In the early 12th century the legal custom or the Daneligh was sharply distinguished from the customs of Wesser and English Mercia, and to the present day t Scandinavian institution, the riding, survives, in the three tidings of Yorkshire. A number of Danish place-names still exist in the original Danelagh.

See J. C. H. R. Steenstrup, Aermannerne (4 vols., 1876-82), P. Vinneradoff, English South in the Eleventh Century (1908), F. M. Steering Develor Charters (1920, and The Develor Regional (1928)
The place-times of the region are discussed by E. Ekwall in the friends for the Survey of English Place-Rames, pt. 1, ch. w. (1224).

(A. M., F. M. S.)

DANGERFIELD, THOMAS (c 1650-1685), English conspirator was born at Waltasm. Essex the son of a farmer He began his career by robbing his father, and, after a wandering life on the continent, took to roining false money, for which offence and others he was many times imprisoned. Faithless to everyone, he first tried to involve the duke of Monmouth and others by concerting information about a Prescyterian plot against the throne, and this having been proved a he, he pretended to have descovered a Catholic plot against Charles II This was known as the "Mealtth Plot," from the place where the incriminating do, when a were hieden at his suggestion, and found by the king's officers by his information. Mrs Enzabeth Cellier-in whose house the his was-almoner to the countess of Powis, who had heirsensed Dangerfield when he posed as a Catholic, was, with her parroruss, actually tried for high treason and acquitted (1680) Dangerheid, when examined (Oct 16 1680) at the bar of the House of Commons, made other charges against the duke of York, the counters of Powis and the earl of Peterborough. He contimed to defame the Roman Carbolics in a long series of pamchless among others being Dangerfield's Narrative. This led to his trul for libel, and on June 29, 1683 he received sentence to stand in the piliary on two consecutive days, be whipped from Adagase to Newgate, and two days later from Newgate to Tybum On his way back he was struck in the eye with a cane by a barrister. Robert Francis, and deed shortly afterwards from the blow The barrister was tried and executed for the murder

DANGEROUS TRADES. By the British Factory and Workship Act 1901, cases of industrial lead, phosphorus, arsenical and mercanal poisoning, also of anthrax, must be reported to the Chief Impector of Factories, Home Office. Subsequently, capes president and first for the bosonies spec cases of a contract of the contract of factories had previsually teen northwate. The inclusion of industrial possoning at mit besieved appositive trees the boder to him of the and the state of t to a table of the state of the the entire to make a serie of mathema greet in the bester the the the the the way . He is at use shape the

Lead Poisoning was among the first of the industrial diseases mar'h as the We'thand to the horder of modern Northampton- thus made notifiable, it is therefore compensable. Lead miners . but . submit to the Edward and so the same time Colchester was I do not suffer from the malady but from disease of the lungs due to inhalation of rock dust Smelters of the ore and refiners develop plumbism (Lat. plumbum, lead) through inhalation of the sion to lowed by No inggerm, and in 920 there was a general 'Tumes. Workers in white lead factories are peculiarly prone to plumbism owing to white lead dust (carbonate) being soluble in the respiratory and digestive passages. A similar liability applies to house painters-especially during the "burning-off" and "dryrubbing down" of old lead pointed surfaces. The substitution of "wet for dry" rubbing down will diminish plumbism among painters. Opinions are divided as to whether the occupational illness of painters may not be as much due to the turpentine in the paint as to the pigments. Persons working in lead become anaemic There is a personal and family idiosyncrasy to plumbism, and young females are if anything more predisposed to it than males. The symptoms are colic, the presence of a blue line on the gums close to the teeth, paralysis of the muscles of wrists and fingers, albuminuria, and in the acute and serious form blindness and contulsions Lead is found in the internal organs after death.

As a result of periodical examination of workers in lead factories, also in potternes which use lead glazes, cases of plumbism have considerably decreased during the last 25 years, as well as in consequence of better ventilation of the workrooms, means for the removal of dust, personal hygiene, and attention to the bowels Lucifer match making is no longer a dengerous trade owing to the substitution of sesquisulphide of phosphorus for the harmful white phosphorus Mercurial poisoning occurs among men employed in the preparation of rabbits' skins by natrate of mercury for hat making, in makers of scientific instruments of precision such as thermometers and barometers, and in men repairing electric meters Carbon bisulphide used as a solvent in rubber industries causes a peculiar form of intoxication not unlike alcoholic, accompanied by staggering gait and mental excitement, also paralysis of the limbs in the more chronic cases Carbon bisulphide is used extensively in the manufacture of artificial silk from cellulose. Benzene or Benzol used in "dry-cleaning" causes headache and drowsiness, while its nitric acid products, nitrobenzene and amido-benzene, destroy the red blood corpuscies inducing pallor of face with marked blueness of the lips, tongue and finger nails, irregularity of the heart's action and collapse The blueness mentioned is due to the formation of aniline in the body Tome joundice was occasionally met with during the war in persons in munition works handling the material of or inhaling tapours of dust from high explosives Anthrax, Wool-Sorters' Disease or Splenic fever attacks workers employed in opening bales of infected wools. In the form of a local pustule the disease occurs in butchers and in men handling infected hides. It is due to an organism, the bacillus anthrocis, which may gain entrance into the lungs by inhalation of dust to which spores are adherent; it may also enter through the broken skin or by the alimentary canal through persons eating infected flesh. The pulmonary form is extremely dangerous, it may cause death within 24 hours. If seen early the local pustule can be excised satisfactorily. A preventive serum has been used with encouraging results, but the essential thing is to have all bales of imported wool carefully opened and thoroughly disinfected before distributing it to the workers During 1926 in Great Britain there occurred 38 cases of anthrax with three deaths.

Cancerous Ulceration.—Epitheliomatous or cancerous ulceration occurs in tar and mineral oil workers, makers of arsenical dip for sheep, and in mule spinners in cotton mills Chimney sweeps have long been known to be subject to scrotal cancer Workmen exposed to splashings of hot pitch and mineral oil develop brown patches and warts on their forearms. The warts may disappear or break down and are followed by ulceration which becomes malignant. Mule spinners in cotton mills have recently exhibited a high morbidity rate of epitheliomatous ulceration. In view of the increase of cancer generally, the large number of cases of scrotal cancer in mule spinners is not only a cause of anxiety but a matter calling for research

n 1920

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92-	1023	1924	1925	1926	Total
9 ² 6 2 ¹	14 ¹ 14 ¹ 6 ¹	11 15 ² 1 ²	25 ² 23 ⁴ 3 ²	27 183 15 ⁹	143 ⁴ 89 ¹² 41 ¹⁶
5 ¹	6	21	4	2	2.22
	152	79 ¹⁷	78 **	8830	260 ⁷⁸
hs					

of coal is a hazardous occupation, ed by fire, gassing, also accidents n the roof Apart from these, coal upation

the United States more men are in to the number of men working pean countries; on the other hand ne number of tons of coal raised, than in any other country Many ented by employing more superuipment and falls of roof Comground conditions these are more r man in U.S.A. than in European e surface, the seams are thicker. aterrupted During the five years r of fatalities per one million tons lives, in Great Britain 4 52 lives; n Prussia 11-85 lives The followalities to numbers employed:

100 Full Year (300-day) Workers

France	Belgium	Prussia
1.43 1.13	1 30 1 12 '91 91	3-15 3-73 3-40 2-47 2-16

so becoming increasingly employed ways the possibility of an electric igniting coal dust

miners are liable are displacement nt, also "beat band," an inflammahe palm of the hand which may ters are a comparatively healthy table

eath Rate per 1000

Coal	niners	All males		
1900-2	1910-12	1900-2	1010-12	
885 80	727	1004 187	790 141	
53	75 61	69	78	

_ating improvement in general ocm industry may be cited. With rvous, respiratory and circulatory as the resemble to one in the content. m in other textile workers. The ed and retired males was during 141, was in cotton operatives for , while brouchitis. which was 58 hed programme gas and \$7

tou Ulceration Was Added to he attues with hum dity Males suiter more from chest diseases than emales the latter more from digestive troubles and anaemia Dust rich in silica is present in all the dry processes. The high temperatures and bumidity predispose to colds, and the dust to asthma Female operatives standing at work all day in high temperatures develop varicose veins and ulcers on the limbs and suffer from debility and anaemia. Weavers suffer from 'twister's cramp," an infection of the muscles of the forearm, thumb and index finger, attended by a considerable amount of pain and foltowed by muscular weakness. Of accidents in cotton mills the largest numbers occur on Tuesday and on Friday and in relation to the hours of the day the maximum appears to be reached between the hours of 10 to 11 AM with a progressive decrease thereafter to the end of the working day

Compressed Air .- Divers and men working in caissons in compressed air are liable to illness of a special kind. Inside the caisson men work practically speaking without discomfore; in order to enter this iron chamber they must pass through an attached "compression" lock and be gradually subjected to a rise of air pressure equal to that inside the cassson into which they will descend Inside the caisson, beyond possibly experiencing unpleasant sensations due to the drums of the ears being forcibly driven inwards, the men are capable of doing even more work than on the surface, but all the while, owing to air being passed into the chamber under high pressure, their blood and tissues are becoming supersaturated with the nitrogen in the atmospheric air. In the body the gas becomes liquefied. It is not until the end of the

shift when men are about to leave work and undergo "decompression" that symptoms arise The men return to the lock wherein they had been "compressed" to undergo "decompression," and if this is done too rapidly bubbles of nitrogen gas gradually appear in the minute blood vessels, which arrest the circulation, or blebs of gas develop in the liver and central nervous system. So that a man who has been too rapidly decompressed may emerge from the chamber apparently well, yet on his way home be overtaken with severe pains in the limbs (bends) and be seen to stagger and fall, paralysed in his legs. Should such an event happen close to his work and the individual be carried back and placed in a warmed 'recompression' chamber, upon being subjected to increasing increments of pressure and kept therein for two or three hours and then slowly decompressed, his pains will usually disappear and the power of walking be regained. By this mode paralysed causson workers have been relieved and their muscular function and equilibration restored three hours after having left work Some men are more liable to the malady than others stout men particularly, for fat dissolves by bulk more nitrogen than the blood and tissues. Men above 40 years of age should not be employed in casssons Supersaturation of the body liquids and tissues with atmospheric nitrogen is determined by the amount

have worked under 28th pressure. Danger arises when the pressure mounts to 40-50lb, above that of the outside atmosphere. The essential thing is slow decompression, not less than amins. for every 3lb of pressure worked in, and should this have exceeded 30lb then at a rate of 1min. per lb Professor John Haldane introduced as a means of treatment "stage' decompression, ie, decompression is suddenly made, for example from 30lb. to 15.

of pressure in the caisson, duration of exposure, and the absorb-

ability of the tissues Symptoms hardly ever occur in men who

and thereafter at a uniform slow rate BIBLIOGRAPHY—Report of Chief Inspector of Factories (1926); Reports of Investigation Burezu of Mines U.S.A. (April 1924 Serial No 2592. W. W. Adams); T. Ohver, Health of the Workers; W. F. Dearden, "Health Hazards in the Cotton Industry," in Journal of Industrial Hygiene (Nov. 11, 1927)

DANIEL, the name given to the central figure of the biblical book of Daniel (see below). Two other personages mentioned in the Old Testament bear this name, see I Chron fii. 1, Ezra viii. z, Neh x 6 Daniel the prophet is known to us only as a character in Jewish fiction. He is mentioned in Ezek xiv 14. co between Noah and Job as one of three foremost saints of Israel and in xxviii 3 as the type of wisdom. This may mean either that such stories as those so our book of Daniel were in disculation as the outlier fith and income on the the

and reatury pic (see color)

According to Dan. : 3 the Babylonian shief eunuch was commarked to bring to the court certain youths of the Judaean capusity. "of the children of Israel, and of the king's seed, and of the Lobles" to serve in the king's paisce. It is apparent that Dining is thought of as one of the nobles, or even of the royal Low Thus Josephus Ant. x 10. 1 and the Loves of the Prophets various Greek recensions, the latter adding that his birthplace was Lorer Berr-Horon, and that he was hurled in the royal tank to Babylon's. In the biblical account, the earlier narrator says that me life extended to the first year of king Cyrus" (i 21 of vi. 25, while the later author represents him as still? giving "ra he hind year of Cyrus" (x. 1) In the late rabbinical countrion (Midr Sir ha-Sirim viv 3) he is said to have returned to Jerusalem among the exiles freed by the royal edict. The Jewish traveller Benjamin of Tudela (12th cent AD) was shown his ! tomb in Susa and notices of this tomb are found as early as the

Daniel, Book of .- The Book of Daniel stands between Esther and Exra in the third great division of the Hebrew Bible known as the Hazwerupha, in which are classed all works which were not regarded as forming part of the Law or the Prophets.

The book consists of two widely different portions a didactic and popular narrative in successive episodes, chaps i-vi.; and a series of prophetic visions, chaps, vii-xii. Chaps, ii-vii, are to Aramaic the remainder is Hebrew. The unity of the whole has been maintained by the great majority of scholars (Bevan, Comm. pp 6, 23 note). Recently, however, theories of composite authorship have gained ground, see Delman, Worte Jesu (1898), p 11, and the works named below. The differences between the two parts are indeed many and striking, notably in the following particulars (1) Style irrespective of the changes in language and subject matter. In the first balf, including the Hebrew chapte: i.. it is generally simple and without any unusual features; in the second half it is obscure and difficult to a remarkable negree (2) In the mental attitude of the author, and his portraval of the character of Daniel there is a profound difference to be seen. (3) The Persiar words, so numerous in i.-vi, are entirely absent in vii -xii 4) There is nothing in the first half of the book to suggest the presence of the arch-enemy, Antiochus Epiphanes, always in the background of the second half, contrast ii. 39-43 with vii. 23-25 (5) There is a manifest contradiction between i 21 (cf. vi. 29), the statement that Daniel "continued until the first year of Cyrus,' and x 1. the account of the vision in that king's hard year. It is natural to suppose that a later author had in mind the words of vi 29, but forgot, or chose to disregard those of 1 21. (6) The use of the two languages finds its only convincing explanation in the theory of dual authorship (see following)

The great majority of scholars at the present day agree that neither the whole book nor the first half containing the narratives, can have been written in the time of the Babylonian monarchy, or even in the earlier part of the Persian period. The chief reasons for this conclusion are the following:

- 1 The position of the book among the Hogiographa seems to show that it was introduced after the final collection of the "Later Prophets" had been made. The collectors of the prophetical writings, who in their care did not neglect even the parable of Jenah, would hardly have ignored the record of so great a prophet and foreseller of future events as Daniel is represented to have been.
- 2. Jesus ben Sirach (Ecclesiasucus), who wrote about 180 B C, in his otherwise complete list of Israel's leading spirits, makes no mention of Daniel
- K. The interpal evidence is even stronger than the external, as will appear in the particulars which here follow The historical insecuracies in the narrative chapters are such as could be credited easy to a writer who lived long after the events described. The statement at the very beginning of the book, that "in the third year of the reign of Jehoiakun" Nebuchadrezzar besieged and espitered Jerusalem, and carried the Jewish king and the vessels

The more probably that the book of Ezekiel was written in the 1 of the temple to Babyloma, finds no support in the history known to us, but seems to be the work of a writer who combined II Chron xxxvi 6 f with II Kings xxiv 1 The use of Kasaim. Chaldaeans," as the name of a class of magicians is a striking anachromsm (see CHALD4E4); and the position of Daniel, a devout Israehte, as 'the master of the magicians' at the Babylonian court (1v 6) is more easily comprehensible in edifying romance than in actual history.

The four kingdoms of chap is introduce a still greater difficulty The first kingdom is the Babyloman (vs 38), the fourth is the Greek empire (cf. chap vni), the third, immediately preceding the Greek (viii 20 f., x 20), is the Persian The identity of the second kingdom is then made certain by numerous passages. it is the kingdom of the Medes whose reigning king, called "Darms the Mede," took possession of Babylonia upon the death of Belshazzar, and at the close of his reign was succeeded by Cyrus (v 30, vi 1, 29, cf 1x 1, x 1, xi 1). There was, however, in fact no Median power which came 'after" the Bahyloman (n 39) and in turn yielded the throne of Babyloma to the Persians (x) 1) The name Darius is not Median, and we have certain knowledge that the immediate successor of Nabonidus and Belshazzar as ruler of Babylonia was Cyrus Comparison with the list of Persian kings in the book of Ezra seems to show that in the last centuries ac the Jewish learned tradition transposed the reign of Cyrus with that of Danius I Hystaspis the latter being regarded as king of the Medes The reign of Cyrus was believed to have been immediately followed by those of Xerxes and Artaverxes. Ezra iv 5 (where the reference is to Darius II. Nothus), 6, cf Montgomery, Comm, p 403 (See Ezra and Nememian, Books)

The highly interesting narratives of Nebuchadrezzar and Danus can hardly be regarded as true pictures of these monarchs. The former erects a golden image and commands all the people in his realm to fall down and worship it at a given signal; afterwards he confesses the God of Israel, and decrees that any subject of his who shall say anything against this God shall be cut in pieces Danus commands by royal statute that "whosoever shall ask a petition of any god or man for 30 days," save of the king himself, shall be cast into the den of lions After Daniel's rescue, the king confesses the God of Israel, and writes to all the peoples, nations, and languages, commanding them to fear this living God, whose dominion is everlasting. All this is plainly popular narration rather than historical record, even though one and another of the items have an undoubted basis of fact. The picture of Belshazzar in chap v. has quite generally been pronounced unhistorical by modern scholars, but recent discoveries have tended to show that the historical background of the chapter is substantially correct Documents in cuneiform prove that Belshazzar, the son of Nabonidus, exercised at Babylon such administrative powers as belonged to no mere crown prince; indeed, it is expressly stated that in the third year of Nahonidus the king entrusted the kingship to his eldest son, Belshazzar (Sidney Smith, Babyloman Historical Texts, 1924, pp 84 sqq). This would seem to explain the dignity of "the thad ruler in the kingdom," conferred upon Daniel Whether, and in what way. Belshazzar could be correctly described as the lineal descendant ("son") of Nebuchadrezzar is a question which future discoveries may settle

4 The late date of the second half of the book, chaps vii.-xii, is evidenced in many ways, not merely by the fact that its author presents a detailed sketch of contemporary history, especially in thap, x1, extending down to the time subsequent to the desecration of the temple at Jerusalem by Antiochus Epiphanes. In both literary and religious character it is a product of the later Greek period. The "apocalypse" as a distinct branch of Jewish literature makes its first appearance at this time, in the books of Daniel and Enoch, and continues henceforth in many similar compositions; its most characteristic features clearly represent a late stage in the history of Jewish thought. See the article "Apocalypse" in the Jewish Encyclopaedra, Montgomery, Comm, 78-81. The way in which Damel in ix. 2 refers to the authoritative scriptures naturally suggests a time subsequent to the final reduction of the Law and the Prophets A like impression is given by the DANIEL 20

ange ology of the visions including the names of he a changels of the book of Daniel on the Messianic hope of the Jews is still Gabr el and M chael (cf the book of Toht) The do true of the esurrec on xi 2 appears now for the first time in clear and, definite form (it had already received expression in Is xxvi 19) Not only the resurrection of the righteous but also that of at least a part of the wicked among the Jews is predicted, and the fact well illustrates the growing prominence of the individual, as contrasted with the nation, in the type of theology here represented Some scholars have seen in this docume, as well as m other teatures of the theology of the book, evidence of the influence of Zoroastrianism (thus Kohut, Bousset, and especially Eduard Meyer Ureprung und Anjange des Christeniums), but the arguments in support of this theory are unconvincing

5 Finally, the linguistic evidence points unequivocally to a date more than two centuries later than the supposed time of the prophet Datuel Comparison of the language of the sufficiently abundant inscriptions and papyri shows beyond question that the Aramaic of Dan it-vii, represents a type which cannot possibly be carried back of 300 BC (Torrey, Esrc Studies, 161-166, G.R. Driver, Journal of Bibl Lit. xlv 110 sqq., 323, and especially Baumgartner, 'Das Aramaische im Buche Daniel," Z A T. W. xlv [1927], 122 sqq) The Hebrew of the book is also of a very late type, see Bevan, Comm., 28-35 The presence of Greek words, especially the names of the musical instruments in in 7 10, 15, adds its significant contribution to the many-sided argu-

The book, then is not a record of historical fact, but in its first half an edifying romance, and in its second half a typical apocalypse. The narrative portion is excellently suited to its purpose, and in the handling of the successive episodes the author's ability as a story-teller is as evident as his religious tervour. Chapter v. in particular, is powerfully dramatic, a gem of the world's literature. The popularity of the stories is early attested by the existence of varying recensions. The old Greek version (as old as the middle of the 2nd century B.C.), now extant in a single ms., supported by the Syriac Hexaplanic version, differs very considerably from the standard text in chaps iv -vi, and is here probably the rendering of a text which was reproduced from memory (Our standard Greek is the rendening of Theodotion, and century AD.) The influence of the second half of the book, the visions was even more powerful and pervasive than that of the stories, determining to a considerable extent the course of the Jewish apocalyptic tradition, and affecting protoundly the early Christian scriptures. The visions are strongly patriotic in their immediate purpose, and there is abundant evidence that they gave in full measure the encouragement and the new religious impulse that they were designed to give. Very little attention is paid in them to the unseen world, their author does not concern himself with the secrets of the universe (contrast the book of Enoch) The eschatology of the book-immensely important as it is, and strongly emphasized by the author himself-is given the briefest possible space, vii. 13 seq, 27, zii 1-3 That to which everything else is subordinated is the prediction of the immediate future. The Jews are soon to be delivered from their oppressors and the faithful will triumph forever. In making his final and most vivid prophecy, the writer at length passes over from the known to the unknown in a very striking manner. In chip is, verses 3-39 present in the form of a prediction the detailed history of the Greek empire in the East, from the conquest of Alexander down to the latter part of the reign of Antiochus Epiphanes Verses 40-45 continue this with an almost equally vivid description of events which had not yet taken place, but were only expected by the writer, namely, the wars which should result in the death of Antiochus and the fall of his kingdom. The mysterious symbolism employed in the computation of various intervals of time is another highly characteristic and significant feature of the Damel visions Thus, the "time times, and a half" (mi 7) which must elapse before the end which has been foretold, the "weeks" (seven-year periods) of ix. 24-27; and the enigmatic numbers of days in vili. 14 and xii Tr sqq For the interpretation of these ever-fascinating riddles the reader is referred to the standard commentaries. The influence | ditions known to us nor is there any evident objection to it, if

another fact of great importance. The "men" ("son of man") of vii 13 becomes henceforth a definitely Messianic title, as in the Book of Enoch and the Christian scriptures, on the other hand the "snounted one" of ix. 26 doubtless refers to the high priest Omas III, who was assassinated at Antioch c 171 B.C. (II Macc w 33-38), referred to m xi 22 as 'the prince of the covenant'

The strange manner of occurrence of the two languages first Hebrew, then Aramaic, then Hebrew again, the alternation not corresponding to any changes in subject matter or literary character furnishes a riddle which many scholars have been content to abandon as insoluble The view that the book, as we have it, is in its original linguistic form and the work of a single author (Behr, Kamphausen) certainly leaves the principal difficulties unexplained It has been a favourite theory that the book was originally written in Hebrew, and that a portion of it was lost or destroyed in the Maccabaean wars and afterward supplied from an Aramaic version (so Lenormant, Bevan, Prince) "This hypothesis stumbles on the fact that the Aramaic begins neatly at the appropriate point" (Montgomery, Comm, p 92) There are other significant features, mentioned above, for which it fails to account A theory first proposed by the present writer and adopted by Montgomery, Comm. recognizes two distinct halves of the book, an earlier and a later, and explains the alternation of languages as the work of the later writer, who himself devised this way of joining his own work to that of his predecessor. The original work, consisting of popular narratives written in Aramaic, comprised the first six chapters, vi 29 forming the natural conclusion. The author of the apocalyptic chapters, vii -xii., writing in the name of Daniel and with the purpose of supplementing the book already existing, composed his first vision, chap vu, in Aramaic, wrote the remaining chapters, viii-xii, in Hebrew (the natural, almost essential, language of the older Jewish apocalypses), and replaced the original Aramaic of i 1-ii 4a with his own rendering of it into Hebrew. An excellent place for making the transition was offered by ii 4, the verse in which the Chaldaean soothsayers first address the king. This ingenious proceeding made of the whole an indissoluble unit Chap i is indispensable to ii seq., while on the other hand viu. seq (Hebrew) could not possibly be separated from vii (Aramaic), for the successive revelations are manifestly all of one piece, and vizi 1b significantly alludes to the preceding vision.

The date of the latter half of the book (and thus of the complete work) is given approximately by allusions to contemporary events It was written in the time of Antiochus IV Epiphanes, after the desecration of the temple (vni 11-14), which took place in Dec 167 BC (for this date, and the others here given, see Kolbe's epoch-making Beitrage zur syrischen und judischen Geschichte, Berlin, 1926). If, as some think, viii. 14 implies that the writer had seen the rededication of the sanctuary (Dec 164), while on the other hand the passage xi. 40-45 shows, as all agree, that the death of Epiphanes (April 163) was still in the future, the visions are dated almost to the month

The date of the first halt of the book, the stories, is indicated with great probability by the allusions and the symbolism in chap. ii. The historical sketch terminates with the attempted alhance, through marriage, of the Ptolemaic and Seleucid kingdoms (so most comms.) at a time when the contrast between the two was like that between iron and clay This would perfectly apply to the political conditions at the time when the crushing blow was inflicted on the northern kingdom by Ptolemy III Euergetes in 246 BC, immediately after the murder of Antiochus II, the Seleucid king, and his newly espoused wife, Berenice, the daughter of Ptolemy II At no other time in the history of the two kingdoms was the contrast so strongly marked, the northern kingdom was not only impotent, it was actually crumbling. The provinces of the Euphrates and Tigris were now lost; Asia Minor was soon to follow: the two sons of Antiochus II. were arrayed against each other. The most probable date for Daniel i-vi would seem to be between 246 and 240, the year of the peace concluded between Ptolemy III. and Seleucus II This dating satisfies all the con-

the fact of composition is accepted. Those ien who postulate for Earker a date c approbrant an interval sufficient to account for the authorism Daniei (see alove, and for the mention of Ezekiel by the Similale

Businessayar - The commencenes of A A Bevan (1892), Behrmara (1814,). D. Prare (1809), Maril (1901), and especially Mongaciery (International Commentary, 1907), with full hillycrift. Terres Now, in the aramace Part of Daniel (Trans. Cour Mail of Acts and Sciences by, 1909 241-282), supplemented in Journal 4%. Or Sec., thu (1903) 229-331. In the above article use las been made of the article by J. D. Prince in the 11th edition. (C C. T.) al La euro copardia.

The "idditions to Danier" are three in number. Susannah and the Miders, Bel and the Dragon, and The Song of the Three Chilin a The two terms. he was organic connection with the book of Danisi, the last is inserted between verses 23 and 24 of chap

Susannah .- This addition was placed by Theodotion before chap i, and Bet sig the Dragen at the close, whereas by the "Miracle" in the church of the Holy Sepulchre Septuagian and the Vulgate it was reckoned as chap xiii after the twelve canonical chapter. Bel and the Dragon as giv Theodotion's version is the source of the Peshitto and the Vulgate, for all three add rons and the Septlagint is the source of the Syro-Hexaplacic, which was published by Ceriani (Mon Socr vii) The legend recounts how that in the early days of the Captivity auszeman the beautiful and mous wife of the rich Joakim, was walking in her gerden and was there seen by two elders who were also sadges. Inflamed with lust, they made infamous proposals to her, and when repulsed they brought against her a false charge of adultery. When brought before the tribunal she was concernred to death and was on the way to execution, when Daniel interposed and, by cross-questioning the accusers apart, convinced the people of the falsity of the charge.

The most interesting part of the story is the latter half, which deals with the trial. It has been plausibly conjectured that the characteristic features of this section point to its composition about 107-90 BC, when Simon ben Shetah was president of the Sanhedrin and when the Pharisees were attempting to bring about a reform in the administration of the law courts. See Ball in the Speaker's Apocrypha, ii. 329 f

The language was Semitic. The original of Theodotion's Greek seems 12 have been Hebrew, notice especially the idiom (not Aramaic) in vs 15 In the "Septuagint version the evidence is not so clear; certain features stem rather to point to Aramaic See unther Ball in the Speaker's Apocrypha; Rothstein in Kantzick's Apoleryphen, D. M. Kay in Charles' Apocrypha.

Bel and the Dragon-We have here two independent narratives, in both of which Daniel appears as the destroyer of beathenism It is possible as the comms have remarked, that some details of the story of the dragon were suggested by the Babyloman mythology. The legend of Habakkuk, who brings food to Daniel in the lions' den, is an interesting feature. The Greek exists in two recensions, those of the "Septuagint" and Tracodotion The original language, which was certainly Semitic, seems to have been Hebrew though this has not been demonstrated tonciusively. See Ball and Rothstein (as above), Witton Davies in Charles' Apocrypha.

Song of the Three Children. This section is composed of the Property of Artistic I the Ruse of The de la contrata del contrata de la contrata del contrata de la contrata del la contrata de la contrata del la contrata de la contrata de la contrata de la contrata del contrata del la Azariah and and Core in company of the transition of hows that our ch. Restaur to there's the met in the corresponding (R. d. C. C. T.)

DANIEL MAY See Kin It is he wasian travelwithout out the middle of the middle ness, the general of the San . To make a winner Levent about and the state of t

bave accompanied Baldwin, who treated him with marked friend liness, on an expedition against Damascus (c 1107) Though Daniel's narrative beginning at Constantinople, omits some of the most interesting sections of his journey, his work has con siderable value His picture of the Holy Land preserves a record of conditions (such as the Saracen raiding almost up to the walls of Christian Jerusalem, and the friendly relations subsisting be tween Roman and Eastern Churches in Syria) peculiarly characteristic of the time, his three excursions—to the Dead sea and Lower Jordan, to Bethlehem and Hebron, and towards Damascus -vave him an exceptional knowledge of certain regions. In spite of blunders in topography and history, his observant and detailed record is among the most valuable of mediaeval documents relating to Palestine. it is also important in the history of Russian language, and in the study of ritual and liturgy Several Russian friends and companions, from Kiev and an old Novgorod, are recorded by Daniel as present with him at the Easter Eve

There are 76 mss of Daniel's Narrative, of which only five are antenor to an 1500, the oldest is of 1475 (Leningrad, Library of Ecclesiastical History, 9/1086) Three editions exist, of which I P. Sakharov's (1849) is pernaps the best known (in Narratives of the Russian People, vol i bk vin pp 1-45). See also the French version in Itinéraires russes en orient, ed Me B de Khitiovo (Geneva, 1389) (Société de Vorient latin), and the account of Daniel in C R Beazley, Dawn of Modern Geography (1897) etc. ii. 155-174.

DANIEL, ARNAULT (# late 12th century), French troubadour, was born at Ribeyrac in Périgord and became a member of the court of Richard the hon-heaited. He has become famous through the praise of Dante who ranks him with the Lustful in the seventh circle of purgatory. Arnault's amatory poems, though often obscure, are technical masterpieces of versification

See E Canello, La Vita e le opere del trovatore Arnaldo Daniel (Halle, 1883) and Les Poésies d'Arnaut Daniel, Réadition critique d'après Canello (Toulouse, 1910)

DANIEL, GABRIEL (1649-1728). French Jesuit historian, was born at Rouen on Feb 8, 1640. He entered the Jesuit order at the age of 18, and became superior at Paris. He is best known by his Histoire de France depuis l'établissement de la monarchie grançaise (first complete edition, 1713). Daniel published an abridgment in 1724 (Eng trans., 1726), and another abridgment was published by Dorival in 1751 Daniel also wrote a Histoire de la milice française, etc. (1721) and a reply to Pascal's Provincial Letters, entitled Entretiens de Cléanthe et d'Eudoxe sur les lettres provinciales (1694); two treatises on the Cartesian theory as to the intelligence of lower animals, and other works

See Sommervogel. Bibliothèque de la Compagnie de Jésus, t u DANIEL, SAMUEL (1562-1619). English poet and historian, was born near Taunton in 1562, and died at Beckington, near Devizes, on Oct. 14, 1619 His brother, John Daniel, was a musician and the author of Songs for the Lute. Viol and Voice (1666). In 1579 Samuel was admitted a commoner of Magdalen hall, Oxford, where he remained for about three years. He was first encouraged and, he says, taught in verse, by Sir Philip Sidney's sister, Mary, countess of Pembroke, whose household he had entered as tutor to her son, William Heibert His first known volume of verse is dated 1592, it contains the cycle of sonnets to Delia and the romance called The Complaint of Rosamond Twenty-seven of the sonnets had already been printed at the end of Sir Philip Sidney's Astrophel and Stella without the author's consent. Several editions of Delia appeared in 1591, and they were very frequently reprinted during Damel's lifetime. The First Four Books of the Civil Wars, an historical poem in ottava rina, appeared in 1595 Poetical Essays, apparently first printed in 1509, contained, besides the "Civil Wars," "Musophilus," and "A letter from Octavia to Marcus Antonius" poems in Daniels finest and most mature r About this time he became titter to Anne Chifford, daughter of the countess of Cumberland. On

the death of Spenser in the same year Daniel re awad the fitte

DANIELL DANISH LANGUAGE AND LITERATURE

farour at court and wrote a Panegy c Cong a lators offered to the Ks g at B stee g Hars ston s Raila delse n ottoga to the Ki g at B de g Hari gton: Ratla dsize n offara (18.9 He died suddenly on March 13. 1845, m London, while n no In 1803 has poem was published and n many cases copies aftending a meeting of the council of the Royal Society of which contained in addition his Poetical Epistles to his patrons and a prose essay called A Defence of Rime (originally printed in 1502) in answer to Thomas Campion's Observations on the Art of Enghish Poesie, in which it was contended that rhyme was unsuited to the genius of the English language Daniel's essay and Campion's were published together, Bodiey Head Quartor, No 14 (New York, 1925) In 1603 Daniel was appointed master of the queen's revels. In this capacity he brought out a series of masques and pastoral tragi-comedies, of which were printed A Vision of the Twelve Goddesses, in 1604, The Queen's Arcadia, an adaptation of Guaritu's Pastor Fido, in 1606, Tethys Festival or the Queene's Wake, written on the occasion of Prince Henry's becoming a anight of the bath, in 1610, and Hymen's Irrumph, in honour of Lord Roxburgh's marriage in 1615. Meanwhile had appeared, in 1603. Certain Small Poems, with the tragedy of Philotas, which brought its author into difficulties as Philotas, with whom he expressed some sympathy, was taken to represent Essex. In 1607, under the title of Certaine small Workes heretofore divulged by Samuel Daniel, the poet issued a revised version of all his works except Delia and the Civil Wars In 1609 the Civil Wars had been completed in eight books. In 1612 Daniel published a prose History of England, from the earliest times down to the end of the reign of Edward III

Daniel was made a gentleman-extraordinary and groom of the chamber to Queen Anne, and was now acknowledged as one of the first writers of the tune. Later in life he threw up his titular posts at court and retired to a farm called 'The Ridge,' which he rented at Beckington, near Devizes, in Wiltshire, where he died.

Of Daniel's works, the sunnets are now, perhaps, most read. They depart from the Italian sonner form in closing with a couplet, as is the case with most of the sonnets of Surrey and Wyat, but they have a grace and tenderness all their own. Of a higher order is The Complaint of Rosamond, a soliloquy in which the ghost of the murdered woman appears and bewails her fate in stanzas of exquisite pathos Among the Epistles to Distinguished Persons will be found some of Daniel's best work. The epistle to Lucy, countess of Bedford, is remarkable among those as being composed in genuine tersa rima, till then not used in English Hymen's Triumph is perhaps the best of all his dramatic writing An extract from this masque is given in Lamb's Dramatic Poets, and it was highly praised by Coleridge. In elegiac verse he always excelled but most of all in his touching address To the Angel Spirit of the Most Excellent Sir Philip Sidney. Musophilus is one of the most characteristic writings of Daniel It is a dialogue between a courtier and a man of letters, and is a general defence of learning, and in particular of poetic learning as an instrument in the education of the perfect courtier or man of action. It is addressed to Fulke Greville, and written in a sort of teraz rima, or, more properly ottava rima with the couplet omitted Daniel is wanting in fire and passion, but he is pre-entinent in scholarly grace and tender, mourpful reverie

Daniel's works were edited by A B Grosart in 1885-96; Selected Verse (Pembroke Booklets, No. 6, 1905)

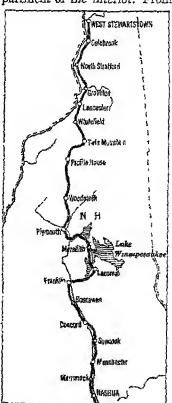
DANIELL, JOHN FREDERIC (1790-1845), English chemist and physicist, was born in London on March 12, 1790. and in 1831 became the first professor of chemistry at the newly founded King's College, London. His name is best known for his invention of the Daniell cell (Phil Trans, 1836: see Battery), still extensively used for telegraphic and other purposes. He also invented the dew-point hygrometer known by his name (Quar. Journ. Sci, 1820), and a register pyrometer (Phil. Trons., 1830); and in 1830 be erected in the hall of the Royal Society a waterbarometer, with which he carried out a large number of observations (Phil Trans, 1832) A process devised by him for the manufacture of illuminating gas from turpentine and resin was in use in New York for a time. His publications include Meteorological Essuys (1823), an Essay on Artificial Climate considered in its Applications to Horticulture (1824), which showed the necespla s and an In valuet o to he Study of Ciemical Philosophy he became a fedow in 1813 and foreign secretary in 1839.

DANIELL, THOMAS (1749-1840). British painter, born at the Chertsey inn Surrey in 1749, and died at Kensington, London, March 19, 1840. Up to 1784 he painted topographical subjects and flower pieces By this time his two nephews (see below) had come under his influence, the younger, Samuel, being apprenticed to Medland, the landscape engraver, and the elder, William, being under his own care. In this year (1784) he embarked for India accompanied by William, and remained there ten years; on returning to London he published his largest work, Oriental Scenery, completed in 1808

WILLIAM DANIELL (1769-1837), his nephew, was 14 when he accompanied his uncle to India. He executed engravings in aquatint and was elected RA in 1822

SAMUEL DANIELL (1775-1811). Was brought up as an engraver, and first appeared as an exhibitor in 1792. He travelled into the interior of Africa, with his sketching materials in his haversack, and published African Scenery He left for Ceylon in 1506, where he spent the remaining years of his life publishing The Scenery, Animals and Natives of Ceylon

DANIELS, JOSEPHUS (1862-DANIELS, JOSEPHUS (1862-), American editor and politician, was born at Washington, N.C., on May 18, 1862. He studied at the Wilson (NC) institute and also the University of North Carolina, and at 18 became editor of The Wilson Advance. He was admitted to the bar in 1885, but preferred newspaper work, becoming in that year editor of the Raleigh State Chronicle. He was printer for the State of North Carolina from 1887 to 1893; and then, for two years, was chief clerk of the Department of the Interior. From 1904 he was editor of the Raleigh



P 5 10 15 20 MH.53 DANIEL WEBSTER HIGHWAY News and Observer, with which his former paper was consolidated. He was on two occasions a delegate to the national Democratic convention, and from 1896 to 1916 was a member of the Democratic national executive committee. In 1913 he was appointed secretary of the Navy by President Witson. His personal interest in the enlisted men was shown by his provision of opportunities for traming in various trades On reuring from this office in 1921 he resumed the editorship of his newspaper He was the author of The Navy and the Nation (1919); Our Navy at War (1922); Life of Worth Bagley (1924) and Line of Woodrow Wilson (1924).

DANIEL WEBSTER HIGHWAY, American thoroughfare extending from the Massachusetts-New Hampshire State boundary hae to the Connecticut river at Canaan, Vermont. This bighway was established by the New Hampshire legislature in 1921 to commemorate the great statesman whose name it bears;

at Franklin it passes near his birthplace. It traverses the White Mountains and the heart of the State, and is hard surfaced or paved throughout its length of 200 miles. Lake Winnepesaukee, Mt. Washington Old Man of the Mountains, the Indian Head and Franconia Notch are among the scenic attractions along its route

DANISH LANGUAGE AND LITERATURE. The territory of Old Danish included the present Denmark, the southern Swedish provinces Halland, Skine and Blekinge, the sity of a humad amosphere in hothouses devoted to tropical whole of Schleswig, and for a short period also a great part of

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language are runit meconotions, altogether about 225 in number The oldest of them go as far back as to the beginning of the c'h ceatury. No Danish titerature arose pefore the 13th century. The oldest manuscrip, dates from the end of that century, written in rules and containing the law of Skane. From about the year 1300 we possess a manuscript written in Latin characters and reptaining the so-called Valdemar's and Errk's laws of Zealand, the Henstorg transscript of the law of Jutland, and a manuscript of the municipal laws of Flensborg. These three manuscripts represent three different dialects—that, namely, of Skåne Halland and blokinge, that of Zealand and the other islands, and text of Juliand and achiesasig. There existed no uniform literary anguage in the Old Danish period.

The form of the language hardly differs at all during the period berween AD. 800 and 1200 from Old Swedish In the oldest interature the differences are not important, and are generally c'inbutable to the fact that Danish underwent a little earlier the same changes that afterwards took place in Swedish. Internally, they show considerable differences; the law of Skåne most nearly corresponds with the Swedish laws those of Zealand keep the middle purce, while the law of Juttand exhibits the most distinc-'we individuality. The vocabulary, which in earlier times only between a iew, and those mostly ecclesiastical, words, became chiefy owing to the predominant influence of the Hanse townsinundated by German words

The carliest traces of literary production in Denmark may be found as far back as the Germanic migration. The mythical events of that period provided inspiration for a Danish epic, which has been lost. Its outline and its ideas can be found in the free version in Latin made by Savo about 1200 (see Axel Olrik, Dannurk's Helichegening. During the first centuries after the arrival of Christianity in the country the Danish mind was almost exclusively engaged in a slow process of assimilation. This was completed by he year 1200, when Denmark came into touch with the Latin civilization common to Europe, partly through translations and partly through adaptations. To this time belong many legends (the earliest about Knud the saint by the English monk Aelnoth), the Hexiemeron, a posm about the creation, by Archbishop Andress Sameson, annals of monasteries and chronicles, the most importare being the Compendiosa Historia Regum Daniae by Sven Aggreen and the Gesta Danorum of Saxo Grammaticus. In the Danish language we find, during the 13th century, collections of legal customs which before that time only existed in the form of oras tradition; eg, the "Scanian Law" and the "Seeland Law". The "justand Law" was somewhat under the influence of Roman and censonical law The medical treatises of Henrik Harpestreng were written at the same time. From the 15th century dates a version of Lucidarus, the collection of old proverbs by Peter Lasle, and a history of Denmark in verse (Rimkroniken) This was the first book in Danish to be printed (1494). The most significant section of mediaeval Danish literature consists of folksongs In 1591 Anders Sprensen Vedel published 100 songs. Svend Grundtvig began a complete and scholarly edition in 1883. It was continued after his death by Axel Olrik

Effect of the Reformation.—The 16th century was influenced by Hurnamism but the struggle of the Reformation engaged the energies of all that was most significant in the nation. The humanest. Poul Heigesen, who had been trained by Erasmus, was a passtorate Catholic polemest, while Hans Tausen (d. 1551 as bishop of Ribe; was a Protestant agitator. A useful mediator between the old and the new tendencies was Christian Pedersen (d 1554). In 1554 he adapted the French poems about Holger Danske-a book which tempined popular for three centuries. Finally he was the principal author of the first complete Danish translation of the Bible (1550). Peder Pallarijus (d. as bishop of Seeland in 1560) imprespects us into the very midst of the fight for the Lutherampatient of the national life in his Visitations, consisting of notes saids for his visits of inspection as a hishop.

Britain, and parts of Normandy. The oldest monuments of the little later Hans Christensen Sthen wrote hymns in the style and in the tender tone of folk-songs

The main part of the non-religious literature of the 16th century has been lost. The most important is the translation from the low German or Reynord the Fox by Herman Weigere (1555) The earliest trace of dramatic poetry in Denmark can also be found in that century-miracle- and morality-plays and farces in naive style, enacted by the pupils of the schools The oldest-known work is a miracle-play Ludus de Sancto Canuto (c. 1530). The most talented dramatic author of the period was Hieronymus Justesen Rauch (d. 1607), rector in Viborg

Apart from belles-lettres we have to mention the Skiby-chronicle by Poul Helgesen, the excellent translation of Saxo in 1575 by Anders Scrensen Vedel, the translation of Snorre's Heamskrmela by the Norwegian, Peder Clauson Frus, as well as the Danmarks Riges Krømke (Chronicle of the Danish State) by the chancellor And Huntfeld Fantastical historiography is represenied by Claus Lyschander, who carnes the origin of the Danish royal house back to Adam

Coming of the Renaissance.—During the Thirty Years' War Denmark was drawn into the European literary renaissance. The first representative of the new tendency was Anders Arrebo (1587-1637) for some time bishop in Trondhjeni. He translated the Psalms into verse, and wrote an adaptation of the Hexaemeron by Du Bartas Anders Bording (d 1677) wrote lively topical poems and poems in the sentimental and gallant pastoral manner He also wrote Den Danske Mercurus, a court-journal written in alexandrine verse (1666), which was the first Danish weekly newspaper. By far the greatest poet is the writer of hymns, Thomas Kingo (1634-1703), the son of an emigrated Scottish weaver, After some smaller collections of hymns (including admirable morning- and evening-hymns) he published at the invitation of the king his sketch of a new hymn-book. A large part of this work was incorporated in the authorized hymn-book, the so-called hymn-book of Kingo of 1699

The prose of this period contained a large amount of creative work Ole Worm (1583-1654) is the originator of research into national antiquities, with the Monumenta Damca (1643), which described and interpreted all runic inscriptions known in his time The Teutonic renaissance, which a century later was to come over from England as a reaction against the one-sided worship of French classicism, was already making itself felt in works such as the edition and translation of some of the older songs of the Edda by Peder Resen (1665), and in the essay De Causis contemptae Mortes a Danis (1689) by Thomas Bartholm the Younger For the first time the living language was the object of serious study, in Latin by Bishop Erik Pontoppidan (1668) and in Danish in the Danske Sprogkunst, and in the Considerations about the Cymbric Language by the priest Peder Syv (1631-1712). At the end of the century two scholarly ladies appear, Brigitte Thott, who translated Seneca in 1058 and the daughter of Christian IV., Leonora Christina Ulfeldt, who in the unique human document Jammersmindet, first discovered and published in 1869, has described in a moving manner the history of her 20 years' imprisonment Famous anatomists were Thomas Bartholm (d. 1680), Nicolaus Steno (d. 1686), who also founded geognosy, and Ole Romer (d. 1710), who discovered the velocity of light

The 18th Century.-In the first half of the 18th century Ludvig Holberg (q v., 1684-1754), puts all other names in the shade. He is called the father of Danish literature and contributed to nearly every branch of it He wrote satures, 34 comedies, novels and enigrams Unprejudiced and humorous, a raisonneur in the English and particularly in the French manner, he poured forth popular philosophical letters and moral considerations, and for the first time in Denmark, catered for the general cultured public

Frederik Euschow, popular philosopher, who died at the age of 25 in 1750, was a pupil of Holberg, as was Jens Schelderup Sneedorff (d 1764), editor of a review in the manner of Addison, The Basis hymn existing destable the period. The earlier Hans Gram (1685-1748), a critical student of sources and a scholfree larger to the control of the firs and foremost an editor. He began the great educin of S mp to es Rer + Du ca m. Enk Pontoppidan the Lounger (q v d 1764) wrote Dansche K c engesch chie and the topographical work Danske Atlas. Apart from Holberg, poetry in the first half of the 18th century has little importance.

After Holberg's death English and French influences became increasingly marked. Pope's didactic poetry and the nature poems of Thomson found an imitator in Christian Braunman Tulin (1729-65) An association for improving the people's taste had been founded in accordance with the rules established by French aesthetics. These rules were strictly applied in the first original Danish tragedy Zarene (1772) by the Norwegian, Nordahl Brun After 1770, other tendencies appeared. It was through Klopstock, who spent a great part of his life in Denmark, that the German Renaissance, which had its starting point in Young Macpherson and Percy, was imported into Denmark. Its most talented representative is Johannes Ewald (q v, 1743-81), perhaps the most important lyrical poet in the pathetic manner of the 18th century Ewald began as an adherent of French classicism but was afterwards influenced by Shakespeare and Ossian. He wrote the first national tragedies, choosing his subjects from Saxo and the Edda (Rolf Krage and Balder's Death) In the musical play The Fishermen we find expressed for the first time the love of the sea and admiration for the common seaman. In his autobiography Levned og Meninger his delicate mind found its best medium of expression. Here we find humour and sensitiveness like Sterne's and the self-analysis of Rousseau.

The Norwegian, Johan Herman Wessel (1742-85), was a lover of clearness, wit and elegance. He caricatured insincere pathos and servile irritation in his tragic parody Raerhghed uden Stromper (Love without Stockings, 1772). He was the wittiest of the clever literary people who gathered in the "Norske Selskab" (Norwegian Association). Jens Baggesen (qv, 1764-1826) was a man of restless nature but charming mind and real facility. His best work was done in his rhymed epistles and in Labyrinten, a description of travel in the manner of Sterne (1792).

The poets of the last decade of the 18th century are not of great importance, but, in a tentative way, they tried new tunes. Thomas Thaarup described the peasants in dramatic idyils with a patriotic tendency, e.g., Høstgildet (Harvest Festival, 1791) Ole Samsøe (d. 1796) chose a subject from the national past for his tragedy Dyveke (the mistress of Christian II) O. C. Olafsen (1764–1827) wrote the best comedy since Holberg, Gulddaasen Political and social satire predominate in the work of Peter Andreas Heiberg (1758–1841), who wrote plays (De Vonner og de Vanner), articles for periodicals and club-songs. Having been pumshed several times for his audacious crificism, he was banished in 1800 and settled in Paris. The same fate befell Malte Conrad Bruun (1775–1826) because of the Aristokraternes Katekismus

The growing interest taken in political and public affairs manifested itself in the formation of clubs where social life was inspired by the punch-bowl and by songs. The most fertile and amiable song-writer of the period was Knud Lyrne Rabbek (1760-1830). He also contributed to the periodicals Minerva and The Danish Speciator. As an editor and a historian of literature he collaborated with the scholarly philologist Rasmus Nyerup (1759-1829) and with Werner Abrahamson (1744-1812), aesthete and critic During this period Danish prose acquired increasing flexibility, clearness and irony. The doctor Johan Clemens Tode (d 1806) wrote witty Essays, Ove Malling aimed at arousing the patriotic sense of the Danes with anecdotes from the national history, Store og gode Handlinger (Great and Good Deeds, 1777). and Peter Frederik Suhm (1728-98) wrote a book about Odin and a history of Denmark, rich in material Niels Treschow (1751-1833) was a philosopher with a style of Gallic delicacy.

The Golden Age.—The period between the battle of the roadstead of Copenhagen (1901) and the battle of Düppel (1864) was the golden age of Danish poetry. The Danish romantic movement shows an unusually harmonious blend of nationalism, of Christianity and of bumanity. The first representative of the movement was Adolph Wilhelm Schack von Staffeldt (1769—1826), who was born in Germany and whose lyricism is profound.

and thought ul though rather hea y and lacking in polish. In he appreciation of the public he was entirely put in the shade by Adam Oehlenschizeger (1779-1850), the most richly endowed poetical genius of Denmark. It was the Norwegian Henrik Steffens, whose conversations and lectures (1301) introduced Oehlenschlaeger to the world of romantic thought. The following years were the creative period, when Oehlenschlaeger wrote his romances, tragedies, poetic stories of adventure and sagas, works which are still the culminating point of Danisa poetry. The power and beauty of his style and its picturesqueness influenced the poetry of the whole century that followed, the world of the Northern gods and heroes became as visible and tangible in Ochlenschlaeger's poetry, as that of the Greek Olympus in Homer In Aladdin and in the figures of his tragedies the nation found an idealized picture of its own character, open, naive innocent, pious and true. Nicolai Frederik Severin Grundtvig (q.v., 1783-1872) was a clergyman, poet and historian. He developed through hard inner conflicts into a mighty advocate of religious and national awakening which particularly through the Grundtvigian folk high schools, has been of enormous importance to the Danish people He wrote historical and popular poems and a great number of hymns, some of which by their mixture of prophetic inspiration, simplicity and depth rank among the foremost in the world's literature. He was also a learned mythological and historical writer and gave, during three visits to England about 1830 an impetus to Anglo-Saxon studies. The importance of Bernhard Severin Ingemann (qv, 1789-1862) also by in his awakening and strengthening the national self-confidence. This he effected by his historical novels of the middle ages, written somewhat in the manner of Scott, and by his cycle of romances Holger Dansko Carsten Hauch (q.v., 1790-1872) was a pupil of Oehlenschlaeger and was romantic in the manner of Tieck and Novalis. His profound and noble personality expressed itself in historical dramas and novels and especially in his lyrical poems

The New Realism.—It is in the '20s of the 19th century that the first traces of an interest in reality can be detected in the choice of poetical subjects Poul Martin Møller (1794-1838), a strong and vital personality, portrayed, particularly in his novel En densk Students Eventyr (The Adventures of a Danish Student, 1824), the types of his own time Jute Steen Steensen Blicher (1782-1848) was even less romantically inclined. His starting point was the 18th century. He began in 1807 with a prose translation of Ossian Later he translated Pope's Abelard and The Rape of the Lock, Goldsmith's Vicar of Wakefield and several of the Percy folk-songs Sterne also strongly influenced him He was the first to describe in his poems Jutland, its heaths and its inhabitants. After 1824 he also did this in his short stories Particularly original is E Bindstouw, a collection of poems and stories written in Jutish dialect. Blicher was a clergyman and, completely in the tradition of the 18th century, he aimed at the enlightenment and practical retorm of his flock. The divorced wife of P. A. Heiberg, Thomasine Gyllembourg-Ehrensvard (q.v., 1773-1856), was much admired in her own time on account of her short stories. Hverdags-historier (Stories of Everyday Existence). She described the troubles of the heart, drawing upon her own experience, with an unprejudiced and delicate human understanding. Her nephew Carl Bernhard (pseudonym, Andreas Saint-Aubsin) revealed similar qualities in his novels. while Carl Baggers's (d 1846) short story (The Lafe of My Brother), which is full of audacious realism and Byronic pride. shocked the few readers it found.

About 1830 the other naive romanticism gave way to a poetical realism, more contemplative and conscious, more artistic than national, more interested in form than in matter. The leader of this movement is Johan Ludvig Heiberg (qv, 1791–1860). His vaudevilles heralded the newer Danish comedy and his romantic dramas Elverhøj (The Hill of the Fairies) and Syvsoverdag ousted the serious tragedies of Oehlenschlaeger from public favour Heiberg was the first Danish critic who founded himself upon clearly defined principles. The upper classes allowed him to dictate their taste, until they accepted the doctrines of Georg Brandes. Henrik Hertz (q.v, 1797–1870) was another author of

comedes also a chammon of good taste. He was a creature of Hans Brochner (d. 1875), the master of Georg Brandes. celesie modis and sine of an artistic mind rather than forceful ! personality. Christian Winther of 1796-1876, was the fertile senger of the natural beauties of Seeland and the first great lyneal love poet in Danish. Lucyle Adait Bodicher (1793-1874) and Emil Agrestrup (1800-56) are excellent lyrical writers in the email manzer.

Hans Andersen.-Unique, and one of the greatest figures was Han- Caristian Andersen (qu, 1805-75). He experimented in several senerg establishmeth success until in his Eventyr (Fairytaken, which come out in small instalments from 1835 onwards. he succeed-if at last in expressing his real self, his sublime simplicay, his all-unspiring finey his deep sentiment and his quaint humour which always plays between smiles and tears. The fairy rales were told for a childish audience in a very lively and impressociatic style, but their ideas are for adults—a mixture of sample election and bitterress caused by personal experiences.

In the 'tos political liberatism was acquiring an increasingly powerful hold, and a growing sense of actuality and of realism began to undermane the old asschetic humanism. Heiberg, with his superior excasm condemied what he called the spiritless outlook of this time in his saturical work En Speel efter Doden (A Soul after Death 1841). Paludan Muller's (1809-76) point of liew honever was echical. His chief work was the epic poem Adem Homo (1841-48), in Byronic stanzas, full of reminiscences of Den Juan. He was one of the masters of Ibsen. So was Spren Asby Kierkegaard (q.t., 1813-55), the most original genius of the 'aos. He was a fascinating and at the same time a profound writer, a captivating stylist, a subtle philosophic and religious author. He set forth his conception of life, his views on aesthetic. ethical and religious problems, in Enten-Eller (Either-Or) and Stedier pee Livets Vej (Stages on the Road of Life).

The Jew Meir Aaron Goldschmidt (1819-87) was a figure of trans.tion, a Danish Disraeh. He edited the first sourical weekly, Corsoren (The Corsoir). He was the first writer who gave a sympothetic description of Jews In his novel En Isde, a Jew (1845), and in his delicate short stories, he displayed a psychological penetration and depth of mood, which pointed towards a newer poetry In the '408 2 certain liveliness was displayed by the students who carried the banner of sesthetic liberalism and of the pan-Scandinavian idea. Carl Ploug (1813-94) and Jens Christian Hostrup (1818-92) were their leaders. They wrote songs and students comedies. Many of the lyrical poets of the middle of the century are delicate in expression even if they are somewhat colourless and vague-Chrisuan Richardt (d. 1892); Hans Vichelm Kaalund (c 1887); Christian Molbech (d. 1888), who also translated Dante; Edvard Lembeke (d. 1897), the translator of Byron and Shakespeare. Eric Bogh (1822-99) was a skilled writer of songs and of vandevilles in the popular humarous taste.

Prose-writers also followed in the traces of the older generation. Herman Frederik Evald (1821-1903) and J. C. C. Brosbøll (pseudonym, Carit Etlar, d. 1900) wrote entertaining historical novels in the manner of Blicher and Ingemann. A series of schoolmasters took the same line (Thyregod, Anton Nielsen, Zacharias Niches). They widened the circle of readers and in their works probed deeper into popular life than any writer before them. Villacim Bergsde was a capable maker of novels which suited the easily satisfied taste of the upper-classes (Piazza del Popolo, 1866). The most original was Hans Egode Schack. His novel Phontosterns (The Phanusts, 1857) reveals considerable psychological

The period which ends about 1870 is rich in important names the person where these shows to be a title in important many of the prince of S65) and J. J. Prince of S65) and J. J. Place on a firm that of Views of Views and the Nicks Matthese Prompt (property mayber property area on the History of Outside the automorphism of the History of the Seelandish state. Christian Microscope and the Seelandish state. Christian Microscope and the first provide t

The Work of Brandes.—Georg Brandes (4.0, 1842-1927) is undoubtedly the leading Danish representative of the new outlook on life which manifested itself during the second half of the 19th century. The brilliance and ingenuity of his manner are shown as much in his lectures about The Principal Tendencies of roth Century Literature as in his literary essays and critical por traits (Holberg, Kierkegaard, Shokespeare, Goethe, Voltaire). He shattered the national self-confidence and linked the general thought of Denmark with the mind of Europe, especially in the direction of positivism and individualism. His historical and psychological criticism formed in the school of Tame and Sainte-Beuve, indicated the direction in which all subsequent Damsh literary history was to move Finally he pointed the way to the poets of his time in the direction of a truer psychology, a more characteristic style, and in particular towards a more daring and more modern choice of subject matter. His critical attitude towards tradition shocked many people. But most of the talented among the younger generation were delighted and enthusiastic Until 1900 literature had essentially been a debate between old and new, national and foreign, a choice between tradinon and freedom. For deeper natures it had meant a debate between the rights of dreams and those of the outer world, between the romanticism of the heart and the realism of the intellect That is how Holger Drachmann (q v, 1846-1908) the greatest lyrical poet of the period, saw the conflict. He was a great writer of love poems and of vivid poems about the sea and seamen, but his inner life oscillated restlessly between the old and the new

Jens Peter Jacobsen (qv, 1847-85), in his stories and novels, went much deeper into the same problems of dream and reality, especially in Niels Lyhne In Marce Grubbe he introduced the naturalism of Flaubert In this genre he showed himself capable of closer observation and of deeper psychological interpretation than any of his predecessors.

Sophus Schandorff (1838-1901) painted racy and 10bust pirtures of peasant and lower middle-class life (Little Folk, 1880) He caricatured priests and noblemen in the true manner of an agitator His successor was Gustav Wied (1858-1911) whose pictures of provincial towns were witty distortions of reality, and exposed the hypocrisies of social life (Slagger, Satyrsbil) Erik Skram (1847-1923) became, with Gertrude Colbjørnsen (1879) a member of the corporation of iconoclasts Karl Gjellerup (1857-1919) began with a contentious and anti-theological novel. The Disciple of Teutons, in homage to Georg Brandes. But soon his religious and humanitarian sentiments made him turn his back on naturalism In drama (Brynhild, Wuthern) and novels Minne, Møllen (The Mill), he dealt with eternal problems in the ethical manner of Schiller

Representatives of the modernist doctrines of Brandes are Edvard Brandes (b 1847) in his modern tendentious drama, the mocking Peter Nansen (1861-1918) in his stories in the style of Maupassant, and Carl Evald (1856-1908) in his natural-history tales with a Darwinian tendency. In his comedies (e.g., En Skandale), Otto Benzon (1855-1927) battles against the hypocrisy of society, and Gustav Esmann (1860-1904) pokes fun at the older generation, e.g., in Den kaere Fumilie (The Dear Family) Less of an aguator and more bound by tradition is Einar Christiansen (b. 1861). Sven Lange (b. 1868) is a poet and an individualist unburdened with doctrines, as he showed in his drama Samson and Delila, in his novel Hiertets Gerninger which describes the early '90s, and in The Pirst Conflicts, in which the young Georg Brandes is the principal figure. A typical Copenhagen poet and a pure artist is Karl Larsen (b 1860), with an acute perception and a perfect capacity for expression. He describes the types of the big town, from the lowest classes upward Edenfor Rangklasserne (Outside the Upper Classes). In Den gamle Historie (The Old Story), which is really an autobiography, he has given us a picture of the evaltation of the '70s

Outside the Brandes movement were the subtle exponent of feminine psychology Withelm Topsøe (1840-80) and the more modern Herman Bang (1857-1912) Bang's outlook on life was Christon 5.11. a Heather harm. (d. 1884) and decadent and pessionstic. He is fascinating because of the rituos to of his impression stic technique. His necial subjects are the uneventil existing the continuous momen with a hidden tragedy in their lives that are made up out of nothing at all (Ved Vejen: Away from the Irodden Path, Ludvigsbakke. Ludvigshill: Irene Holm). Henrik Poncoppidan (b. 1857) is another important author, although in a somewhat order style. In 1917 he shared the Nobel prize with Karl Gjellerup. In a series of great novels (Det for jacticle Land. The Promised Land, Lykkeper; De Dødes Rige. The Kingdom of the Dead) he has exposed in a forceful and mordantly ironical way the weaknesses of his time.

The '90s in Denmark.—About 1800, a reaction against uninspired naturalism set in with a deeper napulse towards beauty, a consciousness of duty towards the universe. This applies especially to a number of lyrical poets in the '90s. The most important was Johannes Jørgensen (b. 1866). He was first attracted by Modernism but became converted to Catholicism. In his youth he was a refined stylist; afterwards in his collections of poems Fra det Dybe (From the Depths), Blomster og Frugter (Flowers and Fruit); and in his prose works. St. Francis of Assis: The Goethe Book, he revealed the depth of his feeling and his gentle simplicity. His friend Viggo Stuckenberg (1863–1906) was a poet who sang of every-day existence and fidelity. Sophus Claussen (b. 1864) was a capricious, but always an elegant, poet (Dansk Sommer Danish Summer, Djaevlerier, Devilnes, Heroica) and translator, e.g., of Shelley

Ludvig Holstein (b. 1864) was a successor of Christian Winther, as Valdemar Rørdam (b. 1872) was the successor of Holger Drachmann Rørdam is also the translator of Kipling. Thor Lange (b. 1851), Ernst v. d. Recke (b. 1848) and Niels Møller (b. 1859) have also to be mentioned, as well as Sophus Michaelis another refined prose writer.

A special group is formed by the Jutland authors who are inspired by love of their land, its natural beauty and its inhabitants, and its daily life in field, farmyard and home Jeppe Aakjaer (b 1866) is a great lyrical poet of popular inspiration, a pupil of Blicher and of Burns Johan Skjoldborg (b 1861) is the poet of the Jutland smallholders (En Stridsmand, Kragehuset) Mane Bregendahl (b. 1867) is important for her descriptions of local hie which are astonishingly true to life and full of faith in the deeper forces of the world Jakob Knudsen (1858-1917) stands entirely by himself. He was a writer of strong personality, who broke away from modernism, individualism and intellectualism (Gaering-Atklaring: The Fermentation Subsides; Angst og Mod Fear and Courage, a book about Luther; Den Gamle Praest . The Old Priest: Sind) Johannes V Jensen (b 1874), the most genuine of the Jutland authors, expanded the Jutush movement into an Anglo-Saxon movement In The Gothic Renuissance (1900) he attacked the sickness and tiredness of the end of the 19th century At the same time he is the greatest language reformer since Oehlenschlaeger His chief works are. Stories from Himmerland, Myths and Hunts, Exotic Stories. which are based on his travels, and a series of novels; e.g., The Long Journey He also wrote a History of the Northern Races from the Ice-age to the Vikings (translated into English in 1924)

Other modern Damsh prose writers of merit are Martin Andersen Nexo (b 1869), author of the monumental epic of proletarian life Pelle the Conqueros and Ditte Girl Alive, Harald Kidde (1878-1918) who lacks Nexo's social interests but deals in a subtle manner with complex psychological difficulties (Aage and Elsa, The Hero); Thorkild Gravlund (b 1879) who specializes in Danish national psychology Knud Hjortø (b. 1869) who has painted pictures of provincial town-life. Johnnes Buchholtz (b. 1832) describes provincial life in a baroque and farcinu manner (Egholm's Gud; The Miracles of Clara v Haag). Hans Poulsen (Julie Pandum, 1927) is subtle and penetrating, and studies the same milieu. Otto Rung (b. 1874) depicts in his novels (The Bird of Paradise) and in his dramas (The Bridge) the dregs of the urban population as well as the "high-brows" Poul Levih (b. 1869) takes his amiable and pleasant subjects from the life of the upper middle --- Cappen in rose), in his Country of the Living (1916 , h s print a d'antique at an fresh value of the

elig ou s ruggle among the population of West-Jutland. Lighter lood is provided in the witty literary portraits and pastiches by Svend Leopold (5 1874), and in Svend Fleuron's (b 1874) widely-read animal stories

After the World War-The ferment of the period after the War has been nouceable in Denmark Anker Larsen (b. 1874) deals with general conceptions of life in his novels, especially in The Philosopher's Stone, which obtained the Gyldendal prize for interature in 1923 Among the younger writers the most original are Tom Kristensen (The Arabesque of Life) and Jakob Paludan (Buds round the Fire and The Field is Kiperung). In lyrical poetry besides the older writers we find again Torn Kristensen Emil Børnelycke the port of town life, the epicurean Hans Hartvig Seedorff (Vine and Ivy) and the pithy satincal painter of the provinces, Harala Bergstedt (b. 1877). A wider horizon opened up in the lyrical and dramatic works of Helge Rode (b 1870) which deal more and more with religious and national questions, and in the Jute Thoger Larsen (d 1928). Finally we may mention Olaf Hansen, L C Nielsen and Kai Horimann, lyrical poets of great dencacy

There are a few dramatists besides those already mentioned: Svend Lange, Heige Rode and the fertue Cari Gandrup (b 1880) The Jew Henri Nathansen deals with the troubles of his race. He has written the dramas Daniel Hertz and Within the Walls, and a novel The Life of Hugo David

There are many women writers and several of them are important. Ingeborg Mane Sick and Kann Michaelis, whose novel The Daugerous Age (1910) has been translated into most European languages. The clever novelist and dramatist Agnes Hennigsen depicts the love-life of modern women. This Jensen has discussed various problems of feminine life. Gyrithe Lemback has given a good description of the life of several generations of a merchant family during the course of a century (Edwardsgave). The novels of Astrid Ehrencrone Kidde about Varmland are delicate and full of atmosphere. Inga Nalbandian has described the terror in Armenia, in works that breathe fiery harred. (For the contribution of Icelandic authors to Danish literature see Icelandic Literature).

Amongst historical writers since 1870 we may mention Troels Lund (1840-1921) who wrote Daily Life in Northern Europe during the 10th Century; the South Jute A D. Jøergensen; the historian of the Normans and Vikings Johannes Steenstrup; the critic of sources of mediaeval history Kristian Erslev (b. 1852), and Eric Arup, who has begun a Danish history written from a social and economic point of view Eminent folklorists were Svend Grundtvig H. F. Feilberg (author of a Jutish dictionary) and Axel Oink. In 1879 Trap finished the first edition of his great statistical and topographical work Denmark, and in 1905 appeared Bricka's biographical dictionary Julius Lange (1838-96) is the author of the monumental work The Human Figure in the History of Art Karl Madsen (b. 1855) dealt with national art and with the Netherlands. Frederik Poulsen (b. 1878) with the art of the ancients; Wilhelm Wanscher (b. 1875) especially with the Renaissence A fascinating writer on the history of national literature is Vilhelm Andersen (b 1864) whose chief work is Times and Types in the History of the Danish Mind. Valdemar Vedel (b. 1865) has given scholarly pictures of historical types from the middle-ages to the 17th century (Lives of Heroes, Town and Burgher, Monastic Life, Baroque, etc.) Amongst the younger writers, Paul V Rubow is notable for his outlook, method and critical sagacity. Harald Nielsen (b 1879) was the most independent judge of the literature of his day but he became increasingly interested in the observation of the social and moral aspects of his own time, and a modern reactionary like Chesterton In philosophy Harald Høssding (b. 1843) is the greatest name.

Finally we may mention the annual publications and the scholarly editions of the Danish Association for National Language and Laterature (Sprog og Litteraturselskab) founded in 1911, which also edits the great Danish dictionary

An extensive hibliography may be found in Kramp and Erichsen Danish Hustorical Bibliography (197) part in, and in the Danish Hand (ended in 1926) (G Cia.)

DANKL. VIKTOR, FREIHERR VON (1054 o-halgin gen al was born in a elo Sep 3 54 e W that b marked at the otises the I Army and deceased the Ressucs in the battle of Krasnik (Aug. 23-25, 1914) After the Palian dec gration of war he became in May 1915 commander of the defence forces in Tirol. As an army commander in a the following years be took a successful part in the offensive against Assign Asiero but shortly afterwards retired from his post on account at al-health

he way of Murrich and of Munkacsy and became an accomprished craughten and a distinguished figure and portrait painter He early attracted attention with sketches and pictures made ! in Spain and a large composition "The Quartette," now in the Metropolitin Museum of Art, New York, was one of the successes of the Paris Salon of 1834. Dannat settled in Paris, he :- represented in the Luxembourg, was president of the Pans Society of American Painters, and a member of the National Instatute of Arts and Letters. He died in France on March 12, 1929.

DANNECKER, JOHANN HEINRICH VON (1758-18411, German sculptor, was born at Stuttgart, on Oct. 15, 1758, and aled there on Dec S 1847. His father was employed in the stables of the duke of Wurttemberg. The boy was entered in the military school at the age of 13, but after two years he was allowed to follow his taste for art. The duke made him sculptor to the palace (1750), and employed him on child angels and caryatids for the decoration of the reception rooms. In 1783 he left for Pans with Schefiauer and placed himself under Pajou; in 1785 he went to Rome, where he worked for five years. Goethe and Herder were then in Rome, and became his irrends, as well as Canour who was the here of the day, and who had undoubtedly a great and powerful influence on his style. The marble statues of Ceres and Boconus (in the Schloss at Stattgart) were done at this time. On his return to Stuttgart, which he never afterwards quitted, except for short trips to Paris, Vienna and Zurich, the double influence of his admiration for Canova and his study of the antique is apparent in his works. The Anadne (1806), in the Bethmann museum, Frankfurt, is the most popular of his works Many of the illustrious persons of the time were modelled by him, among others, Lavater, Metterrach Countess Stephanie of Baden and General Benckendorff Of the three portrait busts of Schiller the first in data (1797) is life-size, and is at Weimar; the second. modelled in colossal size, is in the Stuttgart museum; the third was made for the then Crown Prince Louis of Bavaria. Dannecker was director of the Gallery of Stuftgart, and received many acadense and other distinctions

DANNEWERK or DANEWERK (Dan., Dannevirke or Dansvirke, "Danes' rampart"), the ancient frontier rampart of the Danes against the Germans, extending 10 m. from just south of the tewn of Schleswig to the marshes of the river Trene near the village of Hollingstedt. The rampart was begun by Guðoðr (Godefridar), king of Vestfold, early in the 9th century. In 934 it was passed by the German king Henry I., after which it was extended by King Harold Bluetooth (940-986), but was again stormed by the emperor Otto II. in 974 The chronicler Saxo Grammaticus mentions in his Gesta Danorum the "rampart of Jatland' (Jatice moenie) as baving been once more extended by Valdemer the Great (1157-82), which has been cited among the proofs that Schleswig (Sanderjylland) forms an integral part ei Juriand (Manuel hist, de la question de Slesvig, 1906). After the union of Schleswig and Holstein under the Danish crown, the Danevake fell into decay, but in 1848 it was hastily strengthexect by the Danes, who were, however, unable to hold it in face of the superiority of the Prussian artillery, and on April 23 it was stanced. From 1850 onwards it was again repaired and strengthand at great cost, and was considered impregnable, but in the war of 1864 the Prussians turned it by crossing the Schlei, and it was abandoned by the Danes on Feb. 6 without a blow. It was theretopon destroyed by the Prussians; in spite of which, however, a long line of imposing ruins still remains. The systematic excavathan of these begun in 1900, has yielded some notable finds, I in the very first rank they could not have \$- ky 4 6 4

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espe ally of aluable run conscriptions (I' de Jessen La Question de Sessing pp 25, +4 50 etc.,

See Lorenzen. Danneurke og Omegn (2nd ed., Copenhagen, 1854), H. Handelmann, Das Dannewerk (Kiel, 1885); Philippsen and Sunk-sen, Fukrer durch das Danewerk (Hamburg, 1903).

DANNREUTHER, EDWARD (1844-1905), German planist, teacher and writer on music, was born at Strasbourg on Nov. 1, 1844, and was brought up in the United States He studied music (1859-63) at Leipzig under Moscheles, Hauptmann DANNAT, WILLIAM T. '15=3-1929, Amer.can artist. and Richter, and settled in London in 1863. There he rendered was bern in New York city in 1853. He was a pupil of the Royal i great service to the English musical world in a variety of waysby his own interpretations of the great German classics, by his musical writings in general, and by his propagandist labours on behalf of Richard Wagner in particular He was professor of the pianoforte at the Royal College of Music from 1895 Dannreuther's principal works are. Musical Ornamentation (1893-95), the standard English work on the subject, and vol vi. ("The Romantic Period") of the Oxford History of Music

DANSVILLE, a village of Livingston county, New York, USA, 49m S. of Rochester, adjoining the Stony Brook Glen State park It has an airport and is served by the Dansville and Mount Morris and the Lackawanna railways. The population was 4,569 m 1925 Nurseries, especially for growing fruit and ornamental trees constitute the principal industry, there are also several manufacturing plants. A magazine for teachers, with a national arculation of 166 000 is published there. There is a large sanaturium in the village. Dansville was settled about 1800 and

incorporated in 1845

DANTAN, JEAN PIERRE (1800-1869). French sculptor born in Paris on Dec 28, 1800 His father was a carver in wood. and Jean in company with his brother Antoine Laurent were trained in his studio. The two brothers then studied under Bosio and in 1828 went to Rome On his return to Paris Jean Pierre became known for his caricature statuettes. He portrayed many famous men (Talleyrand, Wellington, Rothschild, William IV, Brougham, Liszt. Victor Hugo and many others) He died in Baden-Baden on Sept. 6, 1869

ANTOINE LAURENT DANTAN (1798-1878), bruther of Jean Pierre made many monuments for churches, public buildings and squares (St Raphael in the Madeleine, Paris. St Duquesne in

Dieppe; La Place in Caen).

JOSEPH EDUARD DANTAN (1848-1897), French historic painter, son of Jean Pierre, studied under Pils. He exhibited regularly in the Salon des Artistes Français; and he also illustrated Zola and

Victor Hugo.

DANTE (or DURANTE), ALIGHIERI (1265-1321), the greatest of Italian poets, was born at Florence about the middle of May 1265 He was descended from an ancient family. but from one which at any rate for several generations had belonged to the burgher and not to the knightly class. Dante himself does not, with the exception of a few obscure and scattered allusions, carry his ancestry beyond the warrior Cacciaguida, whom he met in the sphere of Mars (Par xv 87 seq) Of Cacciaguida's family nothing is known. The name, as he told Dante (Par xv 130, 135), was given him at his baptism. He further tells his descendant that he was born in the year 1091 and that he married a lady from the valley of the Po, from whom the name Aldighleri or Alighleri passed to his descendants He also mentions two brothers, Moronte and Eliseo, and that he accompanied the emperor Conrad III upon his crusade into the Holy Land, where he died (1147) among the infidels From Aldighiero, son of Cacciaguida, were descended the Alighieri Bellincione, son of Aldighiero, was the grandfather of Dante His father was a second Alighiero of whom little is known Dante appears to have been the son of Alighiero's first wife, Bella whose family name is doubtful. By his second wife, Lapa di Charissimo Cialuffi, Alighiero had a son Francesco and a daughter Tana (Gaetana); another daughter, who married Leone Poggi and whose name is not known, was perhaps the poet's sister. Thus the family of Dante held a most respectable position among the citizens of his beloved cuy but had it been r

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after the defeat of the Gue phs at Montapert in 1260 I s clear however that Dante's mother at least d'd so re na n for Dante, wa born in Florence in 1 65 The heads of the Guelph party | did not return till 1267.

Apart from his love for Beatrice, we know very little of Dante's boyhood and early life. His early biographers, Boccaccio and Leonardo Bruni, represent hum as an assiduous student. From

the age of 18 he, like most cultivated young men of that age, wrote poetry assiduously, in the philosophical amatory style of which his friend, older by some years than himself, Guido Cavalcanti, was a great exponent, and of which Dante regarded Guido Gumcelli of Bologna as the master (Purg xxvi 97, 8) He doubtless owed much to the paternal influence of Brunetto Latini (d 1294), the philosopher and rhetorician, who figured largely in the councils of the Florentine commune Of Brunetto Latini Dante himself speaks with the Portrait of Dante, from a woodmost loving gratitude and affec- CUT OF 1521



tion, though he does not hesitate to brand his vice with infamy. He had some knowledge of drawing; at any rate he tells us that on the anniversary of the death of Beatrice he drew an angel on a tablet, he is said to have been an intimate friend of Giotto. who has mimortalized his youthful lineaments in the chapel of the Bargello Nor was he less sensible to the delights of music. Milton had not a keener ear for the loud uplifted angel trumpets and the immortal harps of golden wires of the cherubim and seraphin, and the English poet was proud to compare his own friendship with Henry Lawes with that between Dante and Casella 'met in the milder shades of purgatory." There is some evidence that Dante was at Bologna not later than 1287, but it is doubtful whether, as Boccaccio states, he studied at the university. It is clear that, from his youth onwards, he began to make himself master of all the sciences of his time, while playing his part in society and in touch with every aspect of Florentine life

Political Life.-We must now consider the political circumstances in which lay the activity of Dante's manhood. From 1115, the year of the death of Matilda, countess of Tuscany, Florence developed as a self-governing commune attached to the cause of the Church. According to tradition, the Guelph and Ghibelline factions were introduced into the city in 1215 Buondelmonte de' Buondelmonti, a noble youth of Florence, being engaged to marry a lady of the house of Amidei, allied himself instead to a Donati, and was attacked and killed by the Amidei and Uberti at the foot of the Ponte Vecchio, close by the pilaster which bore the image of Mars (Par xvi 136-147). Although a number of noble families, headed by the Uberti, now ranged themselves with the Ghibellines, the commune remained Guelph; but, in 1248, with the aid of German horsemen sent by Frederick II, the Uberti and the Ghibellines gained the upper hand and expelled the Guelph nobles In 1250, when the emperor was dying, there was a revolution by which the Primo Popolo, the first democratic constitution of the republic, was established, with a captain of the people to counterbaiance the podesta, and the Guelphs were recalled The Uberti and other Chibellines-in understanding with Manfred who had succeeded his father Frederick as king of Sicily-attempted to rebel in 1258, were expelled from the city and their houses and towers destroyed. The reception of the exiles in Siena brought on the war which resulted in the great battle of Montaperti, Sept 4, 1260, "which dyed the Arbia red." in which the Florentine Guelphs and their allies were completely defeated by the Sienese and the German troops of Manfred At a congress at Empoli, in which the Ghibelline cities of Tuscany were represented, it was proposed to destroy Florence -a proposal defeated by the bold patriousm of Parinata degli Uberti (Inf x 91-93).

The Ch belines now held sway in Florence as elsewhere in Tuscary until Charles of Anjou-to whom the pope had offered the crown of Apulia and Sicily-came to Italy, and on Feb 26, 1266, defeated and killed Manfred at Benevento. In 1267 the Guelphs were recalled, and the Ghibellines were driven out. Florence was for a while under the suzerainty of Charles of Anjou, but in 1282, after the "Sicilian Vespers," the Secondo Popolo-the second democratic constitution of Florence-was established By this the government was placed in the hands of the Priors of the Arts, who associated with the Captain of the People, became the chief mag.strates of the republic. The Arts or Gilds-seven maggiori and 14 mmori-were organized to be the backbone of the State. The Priors, elected from the Arts were six in number and held office for two months. Siena had become Guelph, but Pisa and Arezzo remained Ghibelime, and Florence led a Guelph Tuscan league against them in a war which culminated on June 11, 1289, at Campaldino near Poppi, in the Casentino, where the Ghibellines were utterly defeated. They never again recovered any hold in Tuscany but the violence of faction survived under other forms. Several allusions in the Commedia (Inj xxi 1, xxi 95; Purg. v 92) indicate that Dante saw military service in this war, and a passage in a letter of his. no longer extant but quoted by Leonardo Brum, states that he fought in the front rank at Campaldino

Meeting with Beatrice.—As he tells us in the Vita Nuova, Dante had first met the girl whom he calls Beatrice, the love for whom was to be the guiding-star and inspiration of his life, in 1274, when she was at about the beginning of her minth year, and he at about the end of his ninth year. If she has been rightly identified with Bice Portinari, she married Simone de' Bardi Beatrice died on June 8, 1290 (the date June 9 is due to a mystification in the Vita Nuova). The last chapter of the Vita Nuovo relates how, after the lapse of some undefined time. "It was given me to behold a wonderful vision, wherein I saw things which determined me to say nothing further of this blessed one until such time as I could discourse more worthily concerning her And to this end I labour all I can, as she in truth knoweth. Therefore if it be His pleasure through Whom is the life of all things that my life continue with me a few years. It is my hope that I shall yet write concerning her what hath not before been written of any woman. After the which may it seem good unto Him who is the lord of courtesy that my spirit should go hence to behold the glory of its lady, to wit, of that blessed Beatrice who now gloriously gazes on the countenance of Him qui est per omnia saecula benedictus." In the Convivio he resumes the story of his life. "When I had lost the first delight of my soul (that is, Beatrice) I remained so pierced with sadness that no comforts availed me anything, yet after some time my mind, desirous of health, sought to return to the method by which other disconsolate ones had found consolation, and I set myself to read that httleknown book of Boetius in which he consoled himself when a prisoner and an exile And hearing that Tully had written another work, in which, treating of friendship, he had given words of consolation to Laelius, I set myself to read that also" At some unascertained date, perhaps about 1292, he married Gemma, daughter of Manetto Donati, a connection of the celebrated Corso Donati, afterwards the leader of the party opposed to Dante's own By this wife he had two sons, Jacopo and Pietro, and either one or two daughters (Antonia being perhaps the same as the daughter who became a nun, Suora Beatrice, at Ravenna). Although he never mentions his wife in the Divina Commedia, and although she did not accompany him into exile. there is no clear evidence for the belief that the union was otherwise than happy. Certain it is that he spares the memory of Corso in his great poem, and speaks with affection of his kunsmen Piccarda and Forese, the latter of whom was one of his own intimate friends.

In 1203 Ciano della Bella, a man of old family who had thrown in his lot with the people, induced the commonwealth to adopt the so-called "Ordinances of Justice." a severely democratic addition to the constitution, by which among other things it was enacted that no man of noble family, even though engaged in trade, could

wer tetangus em DUCKE 6 e G i weed G th Wi n = m g a grund Tio ear later usago was banashed, but me ordinance remained in torse though their severity was

Banishment-Dame now began to take an active part in pouries. He was inscribed in the arte of the Medici and Spenals, | ableb made aim salgible for the priorate. Documents still existing in the arche es of Florence show that he took part in the deliberations at the severe, councils of the city from the latter part of tott onwards and there is record of an important speech of als in the Council of the Hundred on June 5 1296. In May 1300 he served on a special embassy to the commune of San Georgeson. From June 17 to Aug. 14, 1500, he sat in the Signoria as one of the six Priors, which, he says, was the cause and origin of all his misfortunes. The spirit of faction had again craken out in Florence. The two rival families were the Cerchi; and the Donati-the first of great wealth but recent origin, the last of ancient ancestry but poor. A quarrel had arisen in Pistola between the two branches of the Cancelleri-the Blanchi and Nen, the Whites and the Blacks. The quarrel spread to Florence, the Douatt took the side of the Blacks the Cerchi of the Whites Pope Boniface was asked to mediate, and sent Cardinal Mattee I Augus-parts to maintain peace. He arrived just as Dante entered upon his office as prior. The cardinal effected nothing, but Dante and his colleagues banished the heads of the rival parties in different directions to a distance from the capital The Blacks including Corso Donati, were sent to Città della Pieve in the Tustan mountains; the Whites, among whom was Dante's Cearest Friend Guido Cavalcanti, to Sarzana in the unbeauthy Maremma After the exparation of Dante's office the banished Whites were allowed to return Guido Cavalcanti so ill with fever that he shortly afterwards died. In the following year, 1301, in consequence of a treasonable meeting in the church of 5 Trimia, a number of the Blacks were banished, and a fresh sentence passed against Corso Donatt. The Whites now controked the politics of Florence, and expelled the Blacks from

In this same year, 1301, we have several records of Dante's political arrivity. One of these is noteworthy. The pope had demanded the service of 100 Florentine horsemen, and on June 19, in the council of the Hundren. Dante urged "Quod de servitio" Isciendo comino Papas milal fat." thus showing bimself a firm opponent to papal interferences in Florentine politics Pope Bourface had arready sent for Charles of Valois brother of the French king. Philip the Fair, to act as "peacemaker" The priors sent at the beginning of October, three ambassadors to the pope, one of whom, according to the chronicler Dino Compagni, was Dente Charles entered Florence on All Saints day, 1301, and was followed by Corso Donati and his allies The Blacks, restored to power, appointed Cante de' Gabrielli of Gubbio as podestà, a man devoted to their interest. More than 600 Whites were condemned to exile and cast as beggars upon the world. On Jan 27. 1302, Dance with four others of the White party, was charged before the podesta with baracteria, or corrupt practices in and est of office and with offences against the Guelph party, and, not appearing was condemned to pay a fine of 5,000 lire of small forms. If the money was not paid within three days their property was to be destroyed, if they did pay the fine they were to be crited for two years from Tuscany and never again to hold office in the republic. Dante's mnocence of "parratry" is anguestionable; his real offence was his opposition to the policy of Bordisce and his Florentine supporters. On March 10, Dante and 14 others were condemned to be burned alive if they should come into the power of the republic

Dante's Wanderings in Exile-It is probable that Dante had not returned from his embassy to the pope. Leonardo Bruni states that he received the news of his hanishraent at Siena. He , so at . 1972 r et at Gargonza, a castle perneer San and Anno and our Arezzo their headquarters

a the Forentine errory. Danes presence at which s pro ed by documen ary evidence, and an alliance was there made with the powerful Ghibelline clan of the Ubaldmi In Sept 1303 the fleur-de-lis had entered Anagni and Christ had a second time been made prisoner in the person of his vicar (Purg. xx. 86-40) Bomface did not survive the insult long but died in the following month He was succeeded by Benedict XI, and in March, 1304 the cardinal Niccolò da Prato came to Florence, sent by the new pope to make peace. The people received him with enthusiasm: ambassadors came to him from the Whites, and he did his best to reconcile the two parties. But the Blacks resisted all his efforts. He shook the dust from off his feet, and departed leaving the city under an interdict. In July, with aid from the Ghibellines of Tuscany and other regions, the exiles made an unsuccessful attempt to enter Florence from Lastra, the failure of which further disorganized the party

Dante had however, already separated from the "ill-conditioned and foolish company' (Par. xvii 61-69) of his fellowexiles who rejected his counsels of wisdom, and had learnt that he must henceforth form a party by himself. He appears to have been for a while at Forli in Romagna, of which city Scarpetta degli Ordelaffi was lord and, probably towards the end of 1303, he went to Bartolommeo della Scala lord of Verona, where the courtesy of the great Lombard gave him his first refuge and his first hospitable reception. Can Grande, to whom he afterwards dedicated the Paradiso, was then a boy Bartolommeo died in 1304, and it is possible that Dante may have remained in Verona till his death. It is very difficult to determine with exactness the order and the place of Dante's wanderings. He was probably at Bologna in 1304 and 1305. A rather questionable document attests his presence at Padua in Aug 1306, the time when Giotto was working upon the frescoes of the Madonna dell'Arena In Oct 1306 he was unquestionably the guest of the Marquesses of the house of Malaspina in Lunigiana, where he acted as their ambassador in making peace with the bishop of Luni From this time till the arrival of the emperor Henry VII in Italy, Oct 1310, all is uncertain His old enemy Corso Donati had at last allied himself with Uguccione della Faggiuola, the leader of the Ghibellines, and in 1308 was declared a traitor, attacked in his house, put to flight and killed.

It is not impossible that Dante about this time visited Paris, but that he ever crossed the Channel or went to Oxford may safely be disbelieved. The election in 130% of Henry of Luxemburg as emperor stirred again his hopes of a deliverer. At the end of 1310, in a letter to the princes and people of Italy he proclamed the coming of the saviour, at Milan he did personal homage to his sovereign. The Florentines, in alliance with King Robert of Naples, made every preparation to resist the emperor Dante wrote from the Casentino a letter dated March 31, 1311, in which he rebuked them for their stubbornness and obstinacy, and another on April 17, to the emperor hunself, upbraiding his delay and urging him on against Florence. A new sentence against the poet was pronounced on Sept 2. Henry passed from Genoa to Pisa, and on June 29 1312, was crowned by the pope's legates in the church of St. John Lateran at Rome, the Vatican being in the hands of his adversary King Robert of Naples Then at length he moved towards Tuscany and reached Florence on Sept. 19 He did not dare to attack it but returned in November to Pisa. In the summer of the following year he prepared to invade the kingdom of Naples; but in the neighbourhood of Siena he caught a fever and died at the monastery of Buonconvento, on Aug 24, 1313. He lies in the Campo Santo of Pisa, and the hopes of Dante and his party were buried in his grave

After the death of the emperor Henry (Brum tells us) Dante passed the rest of his life as an exile, sojourning in various places throughout Lombardy. Tuscany and the Romagna, under the protection of various lords, until at length he retired to Ravenna, where he ended his life After the death of the French pope, Clement V., he addressed a letter, in the spring or summer of 1314. to the cardinals in conclave, urging them to restore the w. A. in the true the rest land of Florence by arms On papacy to Rome About this time he probably came to Lucca; here 1 133. A terror of Lti. L. L. Godenzo, a place in the then lately conquered by Uguccione della Fagginola In May

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1315 a general recall of excles offered Dan e an opportun y of wa needed I e i ve Ben bo's authority for believing that the re ur in o Forence The conditions given o he exies we e. that they should pay a fine and he subjected to the ceremony of oblation as penitents in the Baptistery Darte refused to tolerate this shame, and the letter is still extant in which he declines to enter Florence except with honour, secure that the means of life will not fail him, and that in any corner of the world he will be able to gaze at the sun and the stars, and meditate on the sweetest truths of philosophy In Aug 1315, Uguccione won the great battle of Montecatini over the united armies of Florence and Naples but lost Pisa and Lucca at the beginning of the following year. A fresh sentence of death had been pronounced by Florence upon Dante in Nov 1315, and he seems now to have taken refuge with his most illustrious protector Can Grande della Scala of Verona, then a young man of 25, rich liberal and the favoured head of the Ghibelline party, whose name has been immortalized by an eloquent panegyric in the 17th canto of the Paradiso.

The last tew years of the poet's life were spent at Rayenna. under the protection of Guido da Polenta. In his service Dante undertook an embassy to the Venetians, on his return from which he caught a fever and died in Raveona on Sept 14, 1321. His bones still repose there. His doom of exile has been reversed by the union of Italy which has made the city of his birth and the various cities of his wanderings component members of a common country. His son Piero, who wrote a commentary on the Divina Commedia settled as a lawyer in Verona and died in 1364. His daughter Beatrice lived as a nun in Ravenna dying at some time between 1350 (when Boccaccio was commissioned to bring her a present of ten gold crowns from a Florentine gild) and 1371 His direct line became extinct in 1509

The Divina Commedia.—Of Dante's works, that by which he is known to all the educated world, and in virtue of which he holds his place as one of the half-dozen greatest writers of all time is of course the Commedia (The epithet divina, it may be noted, was not given to the poem by its author, nor does it appear on a title-page until the 16th century.) The poem is absolutely unique in literature, it may safely be said that at no other epoch of the world's history could such a work have been produced Dante was steeped in all the learning, which in its way was considerable, of his time, he had read the Summa Theologica of Aquinas, the Tresor of his master Brunetto, and other encyclopaedic works available in that age, he was familiar with most of what was then known of the Latin classical and post-classical authors Further, he was a deep and original political thinker, who had himself borne a prominent part in practical politics The age was essentially one of great men, of free thought and free speech of brilliant and daring action, whether for good or evil It is easy to understand how Dante's bitterest scorn is reserved for those "sorry souls who lived without infamy and without renown, displeasing to God and to His enemies.'

The time was thus propitious for the production of a great imaginative work, and the man was ready who should produce it It called for a prophet, and the prophet said "Here am I." "Dante," says an acute writer, "is not, as Homer is, the father of poetry springing in the freshness and simplicity of childhood out of the arms of mother earth, he is rather, like Noah, the father of a second poetical world, to whom he pours forth his prophetic song fraught with the wisdom and the experience of the old world" Thus the Commedia, though often classed for want of a better description among epic poems, is totally different in method and construction from all other poems of that kind. Its "hero" is the narrator himself, the incidents do not modify the course of the story, the place of episodes is taken by theological or metaphysical disquisitions; the world through which the poet takes his readers is peopled, not with characters of heroic story, but with men and women known personally or by repute to him and those for whom he wrote. Its aim is not to delight, but to reprove, to rebuke, to exhort; to form men's characters by teaching them what courses of life will meet with reward what with penalty hereafter; "to put into verse," as the poet says things difficult to think " For such new matter a new reduce

ter_a rima, surpassed, if at ail, only by the ancient hexameter as a measure equally adaptable to sustained narrative, to debate to fierce invective, to clear-cut picture and to trenchant epigram was first employed by Dante

The action of the Commedia opens in the early morning of the Friday before Easter, in the year 1300. The poet finds himself cost in a forest escaping from which to ascend the mountain of felicity, he has his way barred by a wolf, a lion and a leopard This seems to indicate that at this period of his life about the age of 35, Dante went through some experience akin to what is now called "conversion". The strong vein of mysticism found in so many of the deepest thinkers of that age, and conspicuous in Danie's mind no doubt played its part. His efforts to tree himself from the 'forest" of worldly cares were impeded by the temptations of the world-cupidity (including ambition) the pride of lite and the lusts of the flesh, symbolized by the three beasts But a helper is at hand. Virgil appears and explains that he has a commission from three ladies on high to guide him The lauses are the Blessed Virgin (representing the Divine Mercy), St Lucy (symbol of illuminating graces and Beatrice. In Virgil we are apparently intended to see the symbol of what Dante calls philosophy what we should tather call natural religion; Beatrice standing for theology, or rather revealed religion. Under Virgil's escort Dante is led through the two lower realms of the next world, Hell and Purgatory, meeting on the way with many persons illustrious or notorious in recent or remoter times as well as many well enough known then, but who, without the immortality, often unenviable, that the poet has conferred on them, would long ago have been forgotten Popes, kings emperors, poets and warriors. Florentine citizens of all degrees. are there found; some doomed to hopeless punishment, others explating their offences in milder torments, and looking forward to deliverance in due time. It is remarkable to notice how rarely, if ever Danie allows political sympathy or antagonism to influence him in his distribution of judgment. Hell is conceived as a vast coincal hollow, reaching to the centre of the earth. It has three great divisions, corresponding to Austotle's three classes of vices, moontinence, brutishness (which Dante identifies with violence) and malice The first is outside the walls of the city of Dis; the second is within. The sinners by malice, which includes all forms of fraud or treachery, he at the bottom of a gigantic pit, called Malebolge, with vertical sides, and accessible only by supernatural means, a monster named Geryon bearing the poets down on his back. The torments here are of a more terrible, often of a loathsome character. Ignominy is added to pain and the nature of Dante's demeanour towards the sinners changes from pity to hatred.

At the very bottom of the pit is Lucifer, immovably fixed in ice; climbing down his limbs they reach the centre of the earth. whence a cranny conducts them back to the surface, at the foot of the purgatorial mountain, which they reach as Easter Day is dawning. Before the actual Purgatory is attained they have to climb for the latter half of the day and rest at night. The occupants of this outer region are those who have delayed repentance till death was upon them. They include many of the most famous men of the last 30 years. In the morning the gate is opened, and Purgatory proper is entered. This is divided into seven terraces corresponding to the seven deadly sins, which encircle the mountain and have to be reached by a series of steep climbs, compared by Dante in one instance to the path from Florence to Samminiato The purifying penalties are not degrading, but rather tests of patience or endurance, and borne voluntarily by the souls, in several cases Dante has to bear a share in them as he passes. On the summut is the Earthly Paradise. Here Beatrice appears in a mystical pageant; Virgil departs, leaving Dante in her charge. By her he is led through the various spheres of which, according to both the astronomy and the theology of the tune. Heaven is composed to the supreme Heaven, or Empyrean the seat of the Godbead For one moment there is granted him the intuitive vision of the Desty and the comprehension of alwhich is the ultima e goal of

the last years of Danie's life

Other Works.—The Vitt Name (Young Life or New Life ist both agrifications seem to be intended, contains the history of Dante's lave for Beatrice. He describes how he met Beatrice as a cash, himself a shild how he fergued a faise love to hide his true love how he fee all and saw in a dream the death and transhourshop of his beloved, how she died, and how the tender utration how Beautice appeared in his imagination and reclaimed he meant and how at less he saw a vision which induced him to her who rees on the face of God for ever. It is in the form of https-canzoni one bahata and someets-set in a prose narrative with scholastic divisions and explanations, and was probably completed about 1293, though the reference to the vision may be later

The Conversio or Banquet (less accurately Convito) is the work or Denie's manhood, as the Vite Nucce is the work of his youth It consists in the form in which it has come down to us of an introduction and three treatises each forming an elaborate commentary on a long canzone. It was intended if completed, to have comprised commentantes on it more canzoni making if in all and in this shape would have formed a tesoro or handbook of universal knowledge such as Brunetto Letter and others have left to us It is perhaps the least well known of Dante's Italian works, but contains many passages of great beauty and elevation the magnificent apotheosis of Rome and her empire in the fourth treatise being the first expression of his ideal imperialism. Indeed a knowledge of it is quite indispensable to the full understanding of the Drawa Commedia and the Monarchia It was probably written between 1304 and 1308

Besides the poems contained in the Vita Nuova and Convisio. Dante composed a considerable number of canzoni, ballate and sonners which are collected under the general title of Rome or Canzoniere, and which secure him a place among lyrical poets scercely if at all interior to that of Petrarch. Some scholaryvery ouesnorably-would attribute to Dante a rendering of the Roman de la Rose in 232 sonnets entitled Il Fiore (The Flower)

The treatise De culgari eloquentia, in Latin, is mentioned in the Converse. It was probably written between 1304 and 1306. Its object was first to establish the Italian language as a literary tongue, and to distinguish the noble or "courtly" speech which might become the property of the whole nation, at once a bond of internal unity and a line of demarcation against external naturas from the local dialects pecuhar to different districts. and secondly to lay down rules for poetical composition in the tanguage so established. The work was intended to be in four books, but only two are extant. The first of these deals with the language, the second with the style and with the composition of the canzone. It contains much acute criticism of poetry and poetic diction, and its treatment of the Italian dialects is of singular interest

The Latin treatise Monarchia, in three books, contains the masure statement of Dante's political ideas. In it he propounds the theory that the universal temporal monarchy or empire is secessary for the well-being of the world, that the Roman people acquired this dignity by right, and that the authority of the emperor depends immediately upon God though he must reverence the pape as the first-horn of the Father. Pope and emperor are the guides divincly appointed to lead the human race to eternal life and temporal felicity. Dante's ideal of the empire is a power above national conflicts to preserve universal peace and liberty, me nucles that the goal of civilization, the realization of all man's polerislities may be achieved. The work was probably composed at the time of the descent of Henry VII into Italy, between 1310 and 1313. The book was first printed by Oporious at Basle in 1550, and placed on the Index of forbidden books.

In the last years of his life Dante wrote two ecloques in Latin in agreet to Giovanni dei l'irgilio who mvited him to compose a

1 _____, the one his all is who y blended with that of God , Laun poem on some contemporary event and come from Ravenna and the poem end. The date of composition of the Commedia to Bologna to receive the laurel crown. The most interesting pasis the incertain, but the Paralitis was unquestionably written in sage is that in the first poem (1310) where he expressed his hope that when be has finished the third part of the Commedia his grey hairs may be crowned with laurel on the banks of the Arno

The Quaestro de aqua et terra purports to be a discourse which Dante delivered at Verona in Jan 1300 as a solution of the ques tion which was being at that time much discussed-whether in any place on the earth's surface water is higher than the earth It was first published at Venice in 1508, by an ecclesiastic named concession of another lady nearly won his heart from its first | Moncetti. Since Dr Moore, from internal evidence, made out a very strong case for it, its authenticity has been generally accepted

There are 13 Latin Letters ascribed to Danie Those to the devete mirself to study that he might be more fit to glorify princes and peoples of Italy announcing the coming of Henry of Luxemburg, to the Florentmes, to the emperor himself, to the Italian cardinals and to a Florentine friend refusing the base conditions of return from exile, have been already mentioned. These are certainly authentic, as probably is also a long letter to Can Grande della Scala, containing directions for interpreting the Divina Commedia, with especial reference to the Paradiso Ot less importance are the letters to cardinal Niccolò da Prato, to the nephews of Count Alessandro da Romena, to the marquis Mornello Malaspina, to Cino da Pistoia, and three written in the name of the Countess of Battifolle

Dante's reputation has passed through many vicissitudes, and much trouble has been spent by critics in comparing him with other poets of established fame. Read and commented upon with more admiration than intelligence in the Italian universities in the generation immediately succeeding his death, his name became obscured as the sun of the Renaissance rose higher towards its mendian. His fame is now fully vindicated as one of the world's universal poets and the national poet of Italy

(A J Bu; E. G. G)

BIELIOGRAPHY.-We have now two authoritative editions of the text of the complete Opera di Danie the testo critico of the Societa Dantesca Italiana, edited by M Barbi and others on the occasion of the sixth centenary (Florence, 1921), reproducing the forms and oithography of the poet's own time; the Oxford Dante of Edward Moore revised and re-edited by Paget Toynbee (1923). Di Toynbee's Concuse Dictionary of Proper Names and Notable Matters in the Works of Dante (1914) is invaluable Concordances—based upon edition by Danze (1914) is invaluable Concordances—based upon edition previous to the teste critico, but still highly useful—to the Commedus by E. A. Faj. (Boston, 1888), to the minor Italian works by E. S. Sheldon and A. C. White (1904), and to the Latin works by E. K. Rand and E. H. Wilkins (1912), are due to American scholars.

Editions of the Divina Commedia and Commentaries. The first three editions of the Commedia were printed in 1472 at Foligno, Mantine and Lee.

three editions of the Commedia were printed in 1472 at rougho, Man-tua and Jesi. They were reprinted, together with the Neapolitan edi-tion of 1477 by Lord Vernon and A. Paniza in Le Prime Quatrio Edizini della D. C. letteralmente ristampate (1858). The first Venetian edition is of 1477, the first Milanese (Nidobeatina) of 1478, the first Florentine of 1481. In 1502 Aldus produced the first "pocket" edition in his new "italic" type. The Commedia began to be the sub-ject of commentanes as soon as the author was in his grave; beginning, herois 1220, with those of Danta's son Largue Allahari, and Graviola before 1330, with those of Dante's son, Jacopo Alighter, and Graziolo de' Bambagiudi of Bologna on the Inferno and of another Bulognese Jacopo della Lana, on the whole poem. Somewhat later, but still before 1350, come the Ottimo Commento stiributed to the Florentine notary Andrea Lancia, and those of Dante's other son, Pietro, and the Carmelite Guido da Pisa. Boccaccio's commentary, the substance of lectures delivered at Florence in 1373, stops short at Inf xvii , it is accessible, together with the two versions of his famous life of Danie, edited by D. Guerri, in the Scrittori d'Italia series (Bari, 1918) Latin commentary of Boccaccio's disciple, Benvenuto da Imola (1375-80), who lectured at Bologna, was published by William Warren Vernon with the aid of James Lacarta in 1887. Another noteworthy early commentator is Francesco da Buti who lectured at Pisa towards the close of the same century Extracts from the early commentators are given by G Biagi in La D C nella figuratione artistica e nel secolare commento (Turin, 1921, etc.) The foundations for the estabhishment of an accurate text were laid by Carl Witte in his edition of 1862. The fullest 19th century commentary, that of G. A. Scartazzini, is now somewhat out of date. Among the best of more recent editions, with notes or commencaries, are those of F Torraca, of T Casin, revised and amplified by S. A. Barba, and of Isidoro del Lungo. An accellent peoplet output of the text of the control of the contr excellent pocket edition of the text alone with a critical introduction, is that of Mano Casella (Bologna 1923) For English readers, the three small volumes in the Temple Classics, with text, translation and commentaries by H. Oelsner, T. Okey and P. H. Wicksteed, are very useful, as also the Readings in the Inferno Purgatorio and Paradiso of Wilham Warren Verson

DANTON 4I

Fo ence r 1 70 the Con to at Fo in en 1490 The D; ga E oo ent a wa. firs published in T 155 no s Italiar and in an analysis and in the o... nal Lalin, from a ms now preserved at Cental at Paris in 1577, the Monarchia at Basle in 1599 There are critical editions of the Vita Nuava by M Barbi (Florence, 1907), of the De Vulgar Eloquentia by Pio Rajna (1896), of the Edogues by P H Wicksteed (Dante and Giovanni del Virgilio, 1902), and G. Albin. (Florence, 1903), of the Letters with translation and commen-Albir. (Florence, 1903), of the Letters with translation and commentary by Paget Toynbee (1920). The Canconiere, or Rime, were first adequately edited, the genuine pieces separated from the doubtful and spurious, by Michele Baibi in the testo critico of the Societa Dantesca.

English Translations. The entire Divina Commedia appeared first in English in the version of Henry Boyd (1802), and was tollowed by the admirable blank verse rendering of H F Cary (1814, and ed 1819), which has remained the standard translation Of the numerous later translations may be mentioned those of Longfellow, of J A. Carlyle (Interno only), C E Norton and H F Tozer in prose; G Musgrave of the Interno in Spensorian stanzas, C L Shadwell, of the Purgatoria and Paradiso in the metre of Marvell's "Ode to Cromwell', Haseltoot and M. B Anderson in terra rima D G Rossetti's translation of the Stan Nature will always hold its place as a thing of heavy. Transthe Fita Nuova will always hold its place as a thing of beauty Translations of the Vita Nuova by T Obey of the Rime, Convinto, Monarchia, Letters, Ecloques, Quaestic de Aqua et Terra, by P H Wicksteed and of the De Vulgari Eloquentia by A G F. Howell, are published in the Temple Classics, with full explanatory notes See, in general, P. Toj nbee, Dante in English Literature from Chaucer to Cary (1909). and Britain's Tribute to Dante in Literature and Art 1380

Aids and Studies It is only possible here to mention a few works useful to English readers. As general introduction, P. Toynbec Dante Alighers, his Life and Works (4th ed., 1910). E. G. Gardner, Dante (1923); N. Zingarelli, Vita di Dante in compensio (Milan, 1905), and his larger Dante (1903). Among critical studies, or elucidations of particular aspects of Dante's work, E. Moore Studies in Dante (four series, 1896-1917). P Toynbee, Dante Studies and Researches (1902). Dante Studies (1921). P H. Wicksteed, Dante and Aquinas (1913). From Vita Nuova to Paradiso (1922), the volumes of Dante studies by F. D'Ondio, now reprinting in the collected edition of his works; F Toiraca, Studi dantesche (1912) and Nuovi Studi dantesche (1921), F Totraca, Studi dunteschi (1912) and Nuovi Studi danteschi (1921), E G Parodi Poesia e storia nella Divina Commedia (1921), B Croce, La Poesia di Dante (1921, Eng trans by D Ainslie), C Ricci, L'ultimo niugio di Dante (new ed., 1921); F Ercole, Il bensiro politico di Dante (Milan 1928) Copious bibliographical indications on disputed points are given in the latest edition of the D C with the commentary of Casim and S A Barbi (Florence, 1926). The Giornale Dantesco and the Studi Danteschi directed by M. Barbi are important periodical sublications desling with every appert of the subject.

publications dealing with every aspect of the subject

Portraits of Dante. It is now generally agreed that the repainted figure of Dante in a fresco of the podesta's chapel in the Bargello in Florence is authentic and by Giotto, probably painted (c 1334) from a sketch taken in the poet's early life. The Torrigian mask, now in the same chapel, long supposed to have been made from a death-mask, is probably a work of the 15th or roth century. It is possible that the later representations of Dante may have been influenced by the portrait by Taddeo Gaddi in Santa Croce (destroyed in 1566). Noticetrait by Taddeo Gaddi in Sauta Croce (destroyed in 1566). Noticeable among these are the miniature in codex 1640 of the Biblioteca Riccardiana (c. 1436); the fresco transferred to canvas of Andrea del Castagno in Sta Apollonia (c. 1450); the symbolical picture by Domenico di Michelino (1465) in the duomo at Florence, the bronze bust at Naples (late 15th century), the recently discovered panel attributed to "Amico di Sandro". In the 16th century, we have the figure of Dante in Luca Signorella's tresco at Orvieto, and in Raphael's "Parnassus and "Disputa" in the Vatican. A famous signid skeich of Dante by Raphael is in the Albertina at Vienna. See H. T. Holbrook, Portraits of Dante from Gaotta to Raphael (1911). Attempts have frequently been made to discover the portrait of Dante in various 14th. quently been made to discover the portrait of Dante in various 14th century frescoes, and there have been recent 'discoveries' of this kind at Assisi and elsewhere, the only one that is in the least plausible is that in Orcagna's "Paradise" in Santa Maria Novella at Florence

DANTON, GEORGES JACQUES (1759-1794), French revolutionary leader, was born at Arcis-sur-Aube on Oct 26, 1759. He belonged to a respectable family of Champagne; his father, who died in 1762, was an attorney at the local tribunal, his maternal grandfather the roads and bridges contractor of the province His mother neglected his upbringing, and the boy was allowed to run wild beside the Seme finding vent for his animal spirits in rustic games, in wood and field, in wrestling with the beasts on the farm and in defying his schoolmistress, who tried to tame him with the whip At the age of 14, after a short term at the small seminary at Troyes, this wild young ruffian, with pock-marked face, was entered at the Orațoriens to finish his studies He won the prize for mythology, accessits for rhetoric and Latin verse, and for French essay. His imagination was fired!

and his passion for physical exercise found outlet in swimming, fencing and tennis. Once, in an interval between two cases, we find this high-spirited clerk plunging into the Seine and hurling angry imprecations against the towers of the Bastille as the symbol of oppression Back at his lodgings he greedily read the Encyclopedie, the writings of Montesquieu and Voltaire, of Rousseau and Buffon, and Beccaria's Trané des délits et des peines, which as early as 1764 heralded a revolution in European criminal law. As a probationer advocate in the parlement, Danton was engaged in pleading, in a case in which a shepherd was in dispute with his overlord, he asserted his love of equality, and obtained the approval of Linguet

His marriage with Angélique Charpentier forced him to settle down-or to appear to do so. In 1787, therefore, he became advocate in the conseils du roi This required him to take an oath to observe and keep strictly the laws and ordinances of the kingdom" and also to deliver a speech in Latin on his admittance He paid a high price for this post, but it gave him a thorough insight into public law and administration, civil and ecclesiastical affairs, commerce and finance, the whole machinery of monarchy, the intricacies of customary law, and the law of corporations and property He was elected to the Masonic lodge of the Neut Soeurs, to which Franklin and Voltaire had belonged and there met Bailly. Desmoulins, Condorcet, Chamfort and Sieyes He continued his studies, and it should be noted that he read and spoke fluently Italian and English; he had read, in the original Pope, Shakespeare and Adam Smith's Wealth of Nations

We may picture him at this time—a broad face with strong features, sharply curved mouth and bulliant eyes, blazing with inward fire and passion.

At the outbreak of the Revolution (1789) Danton belonged to Cordeliers district, his house was exactly where his statue stands to-day He was as impetuous as he always had been from childhood in Champagne. As captain of the civic guard he attempted, on the night of July 15, to force the gates of the Bastille that he had before defied. He was already taking sides against both the supporters of the old regime and the moderates. He opposed Lafayette elected to the States General by the nobility of Auvergne, who, after July 14, became chief of the National Guard, but who on Oct 5 and 6, defended the royal family He went further than Bailly, the learned mayor of Paris Danton's position is clear from the time of the events of October, when the king and the assembly, the only two lawful authorities, became prisoners of the people, when Louis XVI had to leave Versailles and return to the Tuileries, escorted by a hunger-maddened mob It was Danton who had the tocsin rung; and Danton who was charged by the general assembly of the Cordebers to thank the king for having graciously taken up his residence in sa bonne ville Although on Aug. 13, 1793, he was to affirm before the Convention that "the republic had existed in all men's minds 20 years before its proclamation," he. at this time, professed himself a good Royalist His record at the Palais Royal, and even more at the Cordeliers, shows him quick in conciliating and incapable of refusing popular favour At each re-election to the presidency of the district, the assembly "accompanies its unanimous vote with an outburst of enthusiasm" Persuasion and force of character made him, the popular tribune, dominant "Danton, the president of the Cordeliers," writes Taine, "could secure in his district the arrest of any one he pleased. His violence in speech and counsel made him in the absence of wider opportunities, the ruler of his quarter."

After the fall of the Bastille, the commune of Pans displaced the former council and took up its quarters at the hôtel de ville This municipal organization was to play an important part in the Revolution By the decree of May 21 1 90 t was divided into

45 sec 1993 with a major, 16 administrators a municipal council! er 32 members and a general econcil of 96 notables, a procureur wire and two deputies Originally with Bailly as mayor the cornware maintained a monarchist and moderate tone. Denton was statted to represent his distinct in Jan 1790 After May 21, when the districts were suppressed he founded the Cordeliers the Society of the Rights of Man and the Citizen, which men in the content of that name which studd on the site of the present stocol or medicate. He also joined in the debates of the Jacobin come which met in the former library of the convent in the rue St Honoré His violent and extreme views led to his defeat in the communal elections, but on Jan. 31, 1791, he was appearand administrator of the department. In this year he found a wider scope for his powers. He took a prominent part in exelus before and after the king's flight. On July 16, mounted on the alter dedicated to la patrie, in the Coump de Mars, he read in his powerful voice the celebrated petition to the assembly to contour new constituent and executive bodies, and to bring the king to risk After the Varennes aftair, the Cordeliers were incured, by the smooth running of the government during Louis XVI s absence, to declare for the republic. The attitude of Lafayette and Bail's at the massacres of the Chemp de Mars, the sneeting down of the petitioners, and the fears of the moderates, caused the first grave split amongst the revolutionaries Danton, whose arrest had been decreed, took refuge first with his father-in-law at Fontenay, then at Arcis and Troyes Thinking is more prudent to quit France, he fled to London, accompanied by his brothers-in-law, who went there to purchase weaving machines During this period the Cordellers, long regarded askance of the Constituent assembly, for the decree of May 21, 1790, was directed against them, became more extreme than the Jacobins. They were accused of demagogy, and Danton was known to be the moving spirit. A split had at least begun to occur between the moderates and democrats. Danton, without hesitation, prized the letter.

His influence was in no way impaired by his exile, in his absence the Thédire Français section appointed him their representative. At the electoral assembly on Dec. 6, 1791, he became assistant deputy to the procureur of the commune. Already, it may be noted, he had to meet murmuts against his wealth and accusations of taking tainted money. In his mangural speech he Lied down has principles, the reasons for his vehemence "how he risked being thought too violent so as never to be weak"; nor was he above self-praise: "I always act in accordance with the eternal laws of Justice" He declared himself in favour of constitutional monarchy, but in the most threatening terms, and with essurances of devotion to the king that rang like a summons Ang 10, 1792, was desumed to bring him into power at one bound making him indispensable in the provisional executive committee which the assembly appointed after decreeing the suspension of the king.

The summer of 1791 was also the summer of Danton's career The war declared by the assembly against the king of Hungary and Boherma had started disastropisly Louis XVI s dismissal of the Girordin ministry led to an insurrection on June 20 and an atrack on the Terlenes Danton opened his campaign, he worked up the feelings of the deputies sent to the festival of the federatime, persuaded his section to proclaim universal suffrage, excited the mab against the duke of Brunewick's manifesto served out half cartridges to the federalat Marsedlais and brought them to the Composers. His homed 1 mm at to 150. "To embrace his normalist the second of the saw of it he was deterday to play be about at I was more on the night of the transfer outsite are a standard action, had Santerre and the correction of the first transport of the revolutionary outly of A cr. . with the line in the conself the tub review that the first had the tills the ular of Aug 19, proving by Archi Patra - 2 .. The wa of Speeches, strate fore to hear I me I at a chatter of July 14

rate production of the second

was now completed Danton asserts the discovery in the archives of the château, of a 'mass of proof of the most infamous perfidy and the blackest conspiracies, glorifies 'holy insurrection," rejoices in the murder of Mandat and the king's suspension. He defines his programme. "The tribunals will find me unchanged. My whole efforts are concentrated on political and individual freedom, the maintenance of the laws public tranquility, the unity of the 83 departments, the glory of the State the prosperity of the French people and on the equality of rights and happiness, though not on the chimerical equality of worldly goods."

This vigorous and clear conception of political liberty and of the unity of the country was the keystone of Danton's policy, based on an often expressed confidence in the people. During the disasters of August the Prussian invasion of Lorraine, the fall of Longwy, the investment of Verdun, he kept his head against the stream of general panic. Michelet says that "at that sublime and sinister crisis he was the voice of the Revolution and of France." On the evening of Tuesday, Aug 28, he made his strenuous appeal in the legislative assembly, for resistance, for the mass levy and a general requisition "Everything belongs to the country when the country is in danger" It is true that a school of historians to-day denies this reading of the part he played Albert Mathiez, in his Danton et la paix, will not be moved even by his famous declaration of Sept z. Il nous fart de l'audace, encore de l'audace et toujours de l'audace, et la France est sauvée !- "we must dare, and dare, and dare againand France is saved" He will not believe the sincerity of his opposition-spirited as it was-to the removal of the government from Pans Mathiez would have us believe that while openly prophesying a certain victory, secretly he was negotiating with Great Britain and saved the Prussian army by ill-timed conferences But surely there is no contradiction in the fervour of a popular leader keeping up the moral of the nation, and the prudence of a statesman desirous of ending the war as soon as possible To proceed, on Sept 21, 1792. Danton resigned the Ministry of Justice to devote himself to his work in the Convention. On Dec 1 he was sent on a mission to Belgium, and for several months, by his counsels and example, instilled courage into the army. He advocated the annexation of the Belgian provinces which were clamouring for union. In his view, the Republic should be extended as far as possible, "its frontiers are marked out by nature and we shall attain them on all four corners of the horizon-the Rhine, the Atlantic the Pyrenees, the Alps These are the natural frontiers of France" Thus Danton showed himself a disciple of Richelieu, and it cannot be denied that his politics were already tinged with imperialism. His speech to the Convention on March 10, 1795, shows that, with Durnouriez, he even favoured the invision of Holland and the declaration of war on England

Meanwhile, Danton was continually attacked by his adversaries. They accused him of offering to save Louis XVI in exchange for some millions of francs, of having secretly protected the emigrés. The statement of Théodore Lameth, the conversations with the duke of Chartres, the letters of the agent Miles, the assertions of Lord Acton carry no convincing proof. One may be shocked by his needlessly hrutal words in casting his vote for death; one may consider that he stifled his real upinions in bidding for popular favour, without beheving that Danton offered his influence for money. Many have accused him of prevarication; it seems certain that his financial affairs were in great disorder, and it cannot be decided that he increased his fortune during the Revolution. But venality has not been proved

In April 1793, he was again called to a post of the gravest responsibility. The king's execution provoked the insurrection in the Vendre and the formidable coalition against France. Dumouriez was preparing his coup d'état. The Convention, thus defied, created the Committee of General Security, the Revolutionary Tribunal, and the Committee or Public Safety, of which Danton was the real head. Once again his rôle had increased thanks to that secret logic which, since the days of 1789, had constantly increased his influence and, so to speak, his force of expansion. There is no cause for surprise that Danton should.

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exonerating him elf he summoned his advertances to come out ' pto the open. In the convention on March 30, 1793 he declared "To-day I myste all sorts of doubts and suspicions, all manner of accusations, for I am resolved to state everything. If any one of you entertains the slightest suspicion about my conduct as (minister, if any one wishes for detailed accounts. Let him use and say so "On April 1 he again attacked his slanderers. If let him he really was corrupt, it must be admitted that his enemies were singularly wanting in clearness of vision or courage. He tried in vain to reconcile the two hostile sections of the assembly. The tribune, in his words had become 'an arena of gladiators." When he rose to speak he was greeted with murmurs, altercations and threats, and at times, e.g. April 10, 1793, there was tumultuous aworder The Montagnards and the Girondins attacked one another incessantly, the commune attempted to impose its wishes by force

Amid these storms, Danton's sole concern was to organize the new régime which was to transform France. Never was his reasoning more lucid. He wanted complete religious liberty subject only to the ordinary law. He championed a programme of public education for the children "whose fathers have leapt to arms for the defence of the frontiers," for "our chief need is enlightenment in the country and sounder patriotism in the towns." He asked that the nation "should be endowed as soon as possible with a republican constitution with settled laws.' He determined to exploit all the benefits of the Revolution, his lucid reasoning led him straight to the kernel of the problem, and he appealed for rapidity of execution and, above all, for national unity for the sake of which he urged all Frenchmen to sink their differences He never lost the revolutionary sense; his aim was to discipline the spirit of liberty-in no way to weaken or restrict it. When the Girondin, Isnard, president of the convention, seemed to threaten Paris because the commune sent a deputation to plead for the liberation of Hébert, Danton, in a heated extempore speech, defended and exalted the capital against the accusations brought by the counter-revolutionaries "Paris," he cried, 'will always be a worthy setting for the national representative body." In these impassioned struggles an event occurred, clearly illustrating the clash of ideas. On the night of May 30-31, the tocsin roused Paris yet again, and the alarm cannon was heard The Gronde had demanded the appointment of a "Committee of Twelve" to enquire into the acts of the commune. Danton demanded the suppression of this committee to which arbitrary powers had been given, arguing that the ordinary tribunals were competent and that Paris, the advance guard of the Revolution, should be exempt from accusation

The insurrection of May 31, the appointment of Hanriot by the commune, to command the army of Paris, the rising of June 2, when the Convention was forced to expel 27 Girondins, constitute a definite set-back to Danton's policy Robespierre's star was rising On July 10 he superseded Danton on the Committee of Public Safety, who, only the previous day, had seemed to be its master Yet Danton eulogized "the holy insurrection of May 31" which, he maintained, had saved the republic His sang-froid, and his confidence in the Revolution were unimpaired On Thursday evening, Aug I, though it was no longer to his personal advancement, he pressed for the strengthening of government authority, and the constitution of a powerful central body. The course of events was rousing all Danton's passion. The adoption of a constitution granting universal suffrage increased his feryour; he was anxious, it would seem, at seeing the legislative gain power at the expense of the executive, and apprehensive of the dangers threatening the country since, at several points, the frontiers had been violated. Danton reverted to his policy of the past year. He became more and more vehement, clamoured for a "war of hons," enunciated the necessary measures for the war in which the whole forces of the nations were now engaged, and urged the mobilization as we should say to-day, of men, grain and money He maintained that in such times of crisis, the government had need of secret funds - proof of his c

even to this day be subject to suspict on the very ferrour of be aid to not of his patriotic courage. In ght be urged A, the him opinions made en mies on eleving de Farit om hiding or molt ragic moment of this crisis he was able to look ahead, and expertating him elf he summoned his advertances to come out to resume his persistent advocacy of the cause of public education.

On July 25 the convention elected him president. Although he refused to serve again on the Committee of Public Safety, his influence, which dominated all the debates, remained formidable. When he spoke, it was to the applicate of the assembly and the tribunes. His demands for vigorous action were carried out and even exceeded. The convention decreed that the provisional government of France should continue to be revolutionary until the peace, in spate of gaps in the constitution, an executive power was formed, more powerful than it had ever been. But the stage was already set for Danton's fall.

On Oct. 12 he went for a holiday to Arcis-sur-Aube to restore his health. This was an excellent opportunity for his enemies—for Billaud Varenne and Robespierre—to prepare his downfall When he returned to Paris in November it was soon obvious that quitting his post had cost him his position. Henceforward the Committee of Public Safety was the dictator, and Robespierre dictator to the Committee. The Terror was established. In truth Danton's withdrawal seems hard to account for, and it has been said that he opened negotiations with insurgents in Normandy, be that as it may, he was accused once more of taking money

Having decided to put an end to the Terror, could Danton lay the monster low? No The movement he had helped to unchain was to pursue its course with pitiless logic Robespierre and Danton hated each other. Danton was superseded In Nivôse 23, his friend, Fabre d'Eglantine, was arrested. In Ventôse the Hébertists were imprisoned Robespierre, who was marching toward the dictatorship, attacked both the Indulgents and the Euragés Danton maintained his courage He again denounced "the false patriots in red bonnets," but his very successes only compromised him the more. Hébert's execution brought him but an apparent triumph Robespierre meant to deal quickly with the formidable adversary who, at one moment, seemed beaten, only to leap up again, and who in the midst of all his perils seemed calm, even to the point of light-heartedness.

Danton neglected to attack in self-defence On Germinal 10 Robespierre had him arrested, impeached him before the intimidated Convention and cowed the Assembly The decree for his trial was voted without one dissentient voice. Danton succumbed less to the ferocity of his enemies than to the pusillaumity or his friends. We do not possess his defence before the Revolutionary Tribunal; there seem to have been only a few indignant outbursts, haughty remonstrances against the accusation of having betrayed the people. Danton did not plead, he defied. He well knew that the crimes of which he was accused before the judges were not those that were really driving him to his death "I have hved," he declared, "entirely for my country." "I am Danton till my death; to-morrow I shall sleep in glory" On April 5 (Germinal 16) Danton was guillotined His age was 34 years and six months. (E HE)

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DANUBE (Ger. Donau, Hungarian Duna, Rumanian Dunarea, Lat. Danubius or Danuvius, and in the lower part of its course Ister), the most important river of southern Europe. Rising in the Black Forest mountains and emptying into the Black sea, it receives tributaries on the right bank from the eastern Alps, the Dinaric Alps and the Balkan mountains, and on the left bank from the Frankischer Jura, Böhmer Wald, Böhmisch-Mährisch Hohe, the Carpathians and the Transylvanian Alps. It is 1,750 m long, drains an area of 320,200 sq m. and is the most important river of Europe as regards the volume of its outflow, but inferior to the Volga in length and drainage area. The river is first called the Danube at Donaueschingen in the Black Forest, where three streams, the Brigach, the Brege and a smaller stream meet at an altitude of 2,187 feet. It is navigable for special river craft below Ulm (beight 1 505 ft. above sea level) and it is fed by at least 300 tributures many of which are themselves mighty

The river can be directed on ree sections the upper course at the latter own their er turns south and to flow in that directed and be directed as the course of the upper course. Iron Ca sac be ower our e below the I on Gates

The direction of the river in its upper course is determined by the structure of the Alpine rereiend. Rising in the crystalline racks of the Brack Forest it flows eastward across a narrow belt of Jurassic rocks to Sigmaringen and from thence to Regensburg along the northern edge of the Swiss plateau (see Alesi, its bed ceing in the soft Molasse (Upper Oligorene and Miocene rocks) and its direction following the so-cauled Danube Fault, which passi from Schafthausen to Regensburg Below the latter town the river is deflected south-eastward by the Boheman massif and tows in part upon the crystalune rocks of the latter and in part or on the Miclaise but at Krems it turns eastward across the Molasse and after passing Vienna it flows through the gap which separates the eastern Alps from the Carpathians. The valley of the Danube above Sigmaningen is narrow, the scenery being wild and beautiful, especially above Tuttlingen, where castles crown every possible summit on the neighbouring hills. Below Immendmgen much water escapes by subterranean fissures into the inter-Ach, a tubutary of the Rhine. After it is joined on the right bank by the Iller which tributary rises in the Algauer Alps the Danube attairs a width of 79 yd and an average depth of 3 ft. 6 in and becomes navigable downstream for specially constructed craft of 100 tons At Denauworth (height 1,330 ft) it receives the Lech, which tributary uses near the Iner and flows in a direction parallel to it, whilst at Regensburg (height 949 ft.) the Danube receives on the left bank the river Nazb which rises in the Fichtel Gebirge Below Regensburg, at Deggendorf, it is joined by the Isar, on the banks of which stands Munich. The upper course of the Danube hes in German territory, r.sing in Baden and flowing through Wirtemberg and Bavana. At Passau (height 800 ft) it enters Austria and approximately too m of the north-western boundary of that country is formed by the Danube, its right bank tributary the Inn. and the Salzach which flows into the Inn on its right hank. The rivers Isar Inn and Salzach drain a large portion of the eastern Alps and have many important towns on their banks The Inn joins the Danune at Passau

GREIN WHIRLPOOL

From Passau to Linz the Danube is hemmed in by mountains, but its valley becomes wider below the latter town where the river subdivides into several arms which unite again at the once famous whirlpool near Grein. Below Grein, the river flows through another narrow defile as far as Krems but once more subdivides as ts passes toward Vienna The district between Linz and Vienna is renowned for its beauty and for the numerous places of historical and archaeological interest along the river's banks. At Vienna the river is 316 yd wide, and 429 ft above sea level and below the town is the district of Marchfeld which is a low-lying country acress which the Danube frequently subdivides forming numerous islands. An important left bank tributary, the March, which drauss Moravia, joins the main stream here. Before reaching Bratishva (Pozsony, Pressburg), the Danube passes through the narrow gap between the lower spurs of the Alps and the Carpathiens and enters upon the middle section of the river At thes gap the river also passes out of Austria and for a few miles is entirely in Czechosiovakia but it very soon becomes the boundary between that country and Hungary, until it reaches Eszergon (Grant, below which town it enters Hungary

The Danube Hows for the first 100 m. of its middle course upon alluvial and Quarternary deposits of the Little Hungarian Plain. This latter is separated from the Great Hungarian Plain by the Bakony Wald ridge, the innermost arc of the Carpathian mountain system, and the Danube breaks through this ridge at Esstergom. After leaving Bratishava, the river divides into three channels ferraing several islands, but these join together again at Komingap where the river is also joined on its left bank by the river Wang which rises in the Carpathians. Higher up the stream at Grin (Rash), the southern branch of the divided Danube is semest by the river Raab which rises in the Styrian Alps Between (Vacz) the valley becomes narrow until

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a the mude on res be ween Brat la a and the ton tor 30 m across be great Hungar an plan I this long stretch, the Danube meanders about in a wide alluvium-filled valley, frequently dividing into two or more streams and passing Budapest Baja (where it leaves Hungary and enters Yugo. slavia; and Mohacs At Almas, 14 m east of Osijek, the Danube is joined by the important right bank tributary, the Drave (height 81 it), which rises in Tirol and drains a large portion of the Eastern Alps The Danube is again diverted eastward at Borovo by the Fruška Gora, and it flows along the northern edge of this range passing Novi Sad (Újvidék) until it reaches Belgrade Between these two towns the Danube receives the important left bank affluent, the Tisa (Theiss), which, rising in the Carpathians. drains the greater part of the western slopes of those mountains, as well as the great Hungarian plain. At Belgrade, the Danube 15 joined by the important right bank affluent, the Save, which, rising in the Julian Alps, flows eastward and drains the greater part of western Yugoslavia, whilst the eastern part of that country is drained by the Morava, which joins the Danube between Belgrade and Bazias, also on its right bank

The whole character of the Danube valley changes suddenly at Bazias, and between that town and Turnu Severin, the river has word out for itself a channel through the mountain ridge which joins the Carpathian are with the Balkan mountains. A large part of the great Hungarian plain, which covers an area of about 30 000 sq m, is remarkably flat and low-lying, and the altitude rarely exceeds 300 ft. In consequence, natural drainage by the Tisa and the Danube is very poor, and where artificial drainage has not been carried out, the banks of the rivers are in many places lined by wide swamps and marshes, which in winter form large ice-fields. Until comparatively recent geological times, this plain formed an extensive inland sea, whose final effluent followed the present course of the Danube through the Kazan defile and the Îron Gates By the lowering of its channel through the gap (the level of the Danube at Orsova is now 42 ft above sea level) this epicontinental sea was drained, leaving the great Hungarian plain covered with a thick deposit of alluvial sands and gravels Hemmed in by precipitous rocks, the river passes through the stupendous Kazan defile (162 yd. wide), then widens out to nearly a mue at Orsova, but becomes narrower again at the Iron Gates. The river has been cleared of numerous obstructions to make possible navigation along this stretch.

THE LOWER COURSE

The lower course of the Danube stretches from the Iron Gates to the Black Sea From Bazzas to the junction with the small right bank tributary, the Tunok, the Danube forms the boundary between Yugoslavia and Rumania From the Timok to a point 27 m east of Ruschuk, it forms the boundary between Rumania and Bulgaria, after which it flows entirely through Rumanian territory Along its lower course, the Danube flows over Quaternary deposits covered by river sands and gravels. Its north bank is low, flat and marshy with numerous small lakes, but its south bank is crowned by low heights which make excellent town sites, eg, Vidin, Lom-Palanka, Svishtov, Ruschuk and Silistra. At Ruschuk, the railway from Bucharest to Varna, crosses the Danube The river receives many tributaries along this stretch, those on its left bank, of which the Oltul and Dambovita, on which stands Bucharest, are the most important, draining the Transylvanian Alps, and those on its right bank, draining the northern ridges of the Balkan mountains. At Cernavoda, where the river is crossed by the railway from Bucharest to Constantça, the Black sea port, the Danube is diverted northward by the hills of Dobruía, which form an isolated remnant of the Hercyman foreland of Europe. Along this stretch as far as Braila, the river subdivides into several channels, and spreads out over the surrounding country forming numerous lakes. The river changes its direction again at Galatz, the chief port on the delta of the Danube, and flows eastward toward its mouths Sez-going vessels having a register up to 4,000 tons can ascend the river as far as Brails, but those up to 600 tons can sail as far as Turnu Severin Two left bank affluents, the Seret and the Prut which drain the eastern side of the Carpathun

DANUBE

mountains enter the river near Galazz. For 50 m in an easterny of the European commission ceales e from above Braila d rect on from Gaia z the Danuoe flows as a ngle channe on it t breaks up into he se eral branches of sidella. Along the northern shore of the river from Galatz to the sea there is a large number of shallow lakes which indicates the poor grainage of the region. The most important mouths of the river are, reading from north to south, the Killa, Sulma and St. George and in 1905 the ratio of the discharge of these three branches was Sulina 9% St George 24% and Kilia 67% The mean annual outflow of all the! mouths is estimated at 315,200 cu.ft. per sec, and the amount of silt brought down at 108 million tons per year. As the currents of the Black sea along this coast flow from north to south, the silt brought down by the Kilia branch tends to block up the mouths of the other channels

The delta of the Danube, which is about 1 000 sq m in area, is a mere wilderness of swamps and marshes covered by tali reeds and through which the silt laden distributaries of the river slowly meander. The monotony of this waste of country is relieved here and there by isolated elevations covered by oak, beach and willows, many of them marking ancient coast lines. The most important towns in the delta region are Ismail, Chilia and Vilkof on the Kilia branch, Sulina at the mouth of the Sulina branch and Tulces and St George on the St George's branch The Kilia branch itself breaks up into a wide delta which is continually advancing seaward, and it is estimated that its various mouths pour into the sea 3,000 cu.ft. of sediment per minute. The Sulma branch breaks off from the Tulcea (St George's) branch, 7 m below the town of Tulcea, and the St George's branch again subdivides before entering the sea

Before engineering works were commenced to make the channels navigable, ships drawing only 8 ft. of water experienced great difficulty in entering, for the depth of water in few portions of the channels rarely exceeded this figure and the frequent occurrence of numerous sand banks and bars further added to the difficulty of shipping. To-day, ships drawing 22 ft. of water can reach

Traffic.—The Danube may be divided for traffic purposes into the maritime Danube from the sea to above Braila, and the fluvial Danube from this point up to Regensburg, where the river at present ceases to be navigable for large craft. Braila and Galatz, situated respectively 171 and 150 kilometres from Sulina (at the mouth of the river), are the usual points for transhipment between seagoing vessels and barges Besides transhipping goods on to barges, seagoing vessels also tranship on to railways at Braila and Galatz Traffic has never equalled that on the Rhine, where the countries are much more highly developed industrially.

The European Commission.—The administration of the Danube was formerly controlled by the single European commission of the Danube, an institution set up with a provisional character by the Treaty of Paris in 1856. Its headquarters were at Galatz, and it administered the Danubian delta only, eight interested nations being represented on it. The conservancy of the other Danubian reach of international importance—the Iron Gates-was entrusted to Austria-Hungary, and assigned by her to Hungary.

In the Treaty of Bucharest (May 1918) the Central Powers reduced the membership of the European commission to "states situated on the Danube or the European coasts of the Black sea" The Treaty of Versailles (June 1919) reinstated the commission in "the powers it possessed before the war" It went on that "as a provisional measure, only representatives of Great Brnain, France, Italy and Rumania shall constitute this commission." The commission acquired definite character when the Danube statute was signed in Paris on July 23 1921 In future, subject to the unanimous consent of the states represented on the commission any European state which is able to prove its possession of sufficient maritime commercial and European interests at the mouths of the Danube may be represented on it Up to 1926, however, the representation had not been increased

The International Commission.—The Treaty of Versailles. Art. 347, provided that "from the point where the competence

the Danube system referred to in Art 331, 2e., as far as the highest navigable point at Ulm, 'shall be placed under the administration of an international commission composed as follows -

Two representatives of German riparian States One representative of each other riparian State

One representative of each non-riparian State represented in the future as the European commission of the Danube.' This commission was to carry on the administration provisionally until the conclusion of a definite statute concerning the Danube

On July 23, 1921, this statute was signed. Many of its provisos simply followed the lines of the 'convention on the regime of navigable waterways of international concern' concluded at Barcelona on April 20, 1921 Article 1 declared navigation on the Danube system to be unrestricted and open to all flags on a footing of complete equality, from Ulm to the Black sea, and the internationalised portions of the Danube tributaries were defined The provisional composition of the international commission was confirmed. It had to see that the declaration in Art 1 was not infringed by any riparian State or States, to draw up a programme of public works for the improvement of the waterway on the basis of proposals submitted by the riparians, controlling and if necessary modifying the annual programmes of the riparian states for current works of maintenance. The cost of such works was borne by the nparian State concerned assisted, if the commission so decided, by other States interested.

The cost of works of improvement (not maintenance) might be covered by navigation dues, to be imposed (with the commission's authorisation) by the riparian State which had executed the works, or by the commission itself, if it had executed them at its own charges Dues were to be assessed on the ship's tonnage and not based on the goods transported, revenue from them was to be applied exclusively to the works for which they were imposed there was to be no differential treatment of flags Customs duties levied by a riparian on goods loaded or discharged at the Danubian ports in its territory were also to be levied without distinction of flag or hindrance to navigation, and were not to be higher than duties levied at other frontiers of the same state The transport of goods and passengers, even between ports of the same riparian State, was to be unrestricted and open to all flags on a footing of perfect equality, with the exception of regular local services which may only be carried out by foreign craft subject to the observance of the national law of the local sovereign, and in agreement with the authorities of the riparian state concerned (Art 22). Passage of goods and passengers in transit was to be free. Uniform police regulations were to be drawn up and applied by each riparian on its own territory. A special joint service of Rumania and Yugoslavia, organised with the approval of the commission, will have to take over the maintenance and improvement of the Iron Gates section, with headquarters at Orsova. The commission was to decide on special works to be undertaken (and dues to be levied for the purpose) and to have power to abolish the service when its work was done; it could inaugurate like services elsewhere if necessary

The commission was to determine its own procedure and administer its own budget, the presidency being held for six months by each delegation in turn Its seat was to be at Bratislava the first five years, and thereafter it might be established at other towns on the Danube, selected at its discretion, for fiveyear periods in rotation. Its property and members were to enjoy diplomatic privileges and it was to fly its own flag. It was to deal in the first instance with questions regarding the interpretation and application of the convention; but the special jurisdiction set up by the League of Nations would ultimately have to deal with complaints from a state that the commission was acting ultra wres, or from the commission against a state for neglecting to carry out its decisions Every effort was made to insure uniformity between the workings of the International and the European commissions, and between different signatory states.

The convention came into force on June 30, 1922. One of the

most important questions that his been raised since that date was county ted with the interpretation of Ari. 22 (above), as certain states in custom Europe were analous to reserve to their own dag the passenger at speeds traffic between ports in their own territory. In the discussion on Art 22, the Rumsman delegate stated that the carriage of goods on river craft between two posts in the same country did not constitute sabotage if the goods were subsequently transhipped to a seagoing vessel to expert and that Art 12 imposed no restriction on the traffic carried on up to that time by Greece. It would seem to be resideabled by the decisions of the Powers conference that casual transport by foreign vessels between two ports in the same state is the corestructed oven it it takes place repeatedly. (See Interior Water Transport.)

Ever since toer the old Ludwigskanal connecting the Danube and the river Main is being entarged and will form the Rhine-Mair Darube Canal thus making navigation between the Atlantic Ocean and the Black Sea through the European continent possible.

Many legends are woven around the course of the Danube A district in Austria near Grein is still called the Nibelungen-gau

in memory of one of the most famous sagus

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DANVERS, a town of Essex county, Massachusetts, 19m NE. of Boston, on the coast. It is served by the Boston and Maine railroad. The population was 11,798 in 1925. It is a residential suburb, has various manufacturing industries, with an output in 1927 valued at \$7.088,236, and is the seat of a State hospital for the insane. Danvers was separated from Salem as a district in 1752 and incorporated as a town in 1757, but the act of incorporation was disallowed by the privy countil. In 1775 it was again incorporated. Within its present limits was Salem village, the centre of the witchcraft delusion of 1692. Danvers was the birthplace of Israel Putnam (q.v.)

See J W Hauson. History of the Town of Danvers (1848), and A. P White, "History of Danvers" in History of Essex Co (1838)

DANVILLE, a city of eastern Illinois, USA, 124m. S. of Chicago, on the bluffs of the Vermilion river; the county seat of Vernsilion county. It is served by the Chicago and Eastern Illinois, the Illinois Traction (electric), the New York Central and the Wabasa radways. The population was 33,776 in 1920 (87% native winte) and was estimated by the census bureau at 38,200 in 1927. It is the commercial centre of a rich farming and coalmining region, and has substantial manufacturing industries, inchaling railroad locomotive and repair shops, flour and lumber malis, large brick plants, glass works and a zinc smelter. The output of the factories within the city in 1927 was valued at \$14,-942,082. Bank clearings in 1926 were \$168,044,977. The assessed valuation of property in 1927 was \$15,535,681. There are large dairy and stock farms round about. The mines of the county produced over 3,000,000 tons of coal in 1926. At the western boundary of the city is Lake Vermilion, a reservoir 4m. long, with a expectly of 2 500,000,000gal, completed in 1935. A branch of the National Home for Disabled Volunteer Soldiers was established here in 1898. Danville was the site of an Indian village, Pendeshaw, the certire of meny trails. In 1824 Dan Beckwith, for whom the city was monest, built his trading cabin here, and in 1826 the settlement became the county seat. It was incorparated as a city in 1869. A commission form of government was adopted in term and a vity plan (prepared in 1920) is in process of development. Dispute was the home of Joseph Gurney

DANVILLE, a city in the "blue grass" region of Kentucky. USA, 70m SE of Louisville; the county seat of Boyle county It is served by the Southern railway system. The population was 5,099 in 1900 (27% negroes) and was estimated locally (including contiguous subuchs) at 7 500 in 1928 Danville is an important market for horses, cattle, hogs and sheep, hemp, tobacco; is the trading centre for a large area, and has large railroad shops. It is the seat of the Kentucky school for the deaf (founded 1323), the first State institution of the kind in America; Centre college for men (Presbyterian, chartered 1819), and Kentucky (formerly Caldwell) college for women (Presbyterian: 1860) There are many fine old mansions in and near the city, and beautiful landscapes and river scenery in every direction. Herrington lake, created by the hydro-electric development on the Dix river, has 75m, of shore line The battlefield of Perryville is 11m west At Pleasant Hill. 13m north, are the massive stone buildings of an abandoned Shaker community. Danville was on the Wilderness road, and was one of the first settlements (1781) in Kentucky It was the home of Dr Ephraim McDowell (1777-1830), who in 1809 performed the first entirely successful operation for ovarian tumour; and was the buthplace of Justice John M. Harlan. From 1786 to 1790 an influential "political club" held long winter evening debates in th Gill Tavern, and here met the nine conventions which discussed the terms of separation from Virginia and framed the first State constitution

DANVILLE, a borough of Montour county. Pa, USA, on the high northern bank of the Susquehanna river, at the base of Montour ridge, from NW of Philadelphia, the county seat and an active manufacturing centre. It is on Federal highway 11, and is served by the Lackawanna, the Pennsylvania and the Reading ranways. The population was 6,952 in 1920, and was estimated locally at 7,500 in 1928 Limestone abounds in the vicinity, and the borough has large iron and steel works, silk and stocking mills and other industries. It is the seat of a State hospital for the insane (established 1868). A settlement was made here about 1776, and in 1792 a rown was laid out, called Dan's Town, after one of the founders. With the discovery of mon ore on Montour ridge, and the completion of the north branch of the Pennsylvania canal through the borough, it grew rapidly, and was incorporated in 1849. The iron deposits are now exhausted and ore is imported by the local mills The first 'T" rail in America was rolled here in 1845

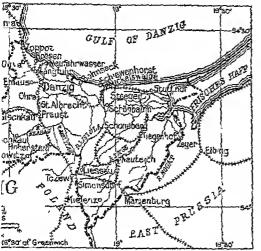
DANVILLE, a city of Virginia, USA, on the high banks of the picturesque Dan river, near the southern boundary of the State, in Pittsylvania county but politically independent of it. It is on Federal highways 170 and 501, and is served by the Danville and Western and the Southern railways The population was 21,539 m 1920 (26% negroes) The local estimate for 1928, including immediate suburbs, was 37,000 It is one of the largest markets in the country for bright-leaf tobacco handling 100,-000,000fb annually, and has one of the largest and oldest cotton mills in the South, operating 13 462 looms and 467,000 spindles in 1928 There are hostery and silk mills, and various other manafacturing industries. The aggregate output of the 37 factories in the city in 1927 was valued at \$11,503,231 Danville was settled about 1770 incorporated as a town in 1792, and as a city in 1883. After the evacuation of Richmond on April 2, 1865 the archives of the Confederacy were brought to Danville, and for a few days Jefferson Davis made it his capital. The building in which he met his cabinet is now a Confederate memorial and museum.

DANZIG, FREE CITY OF, a state under the protection of the League of Nations has an area of 791 sq m.: the territory is divided into municipalities and rural districts. Population of the whole state (1024) 385,000 (96% of which were Germans), that of the Danzig municipality being 231,000 Resides the municipality of Danzig, there are the municipality of Zoppot (27,500 inhabitants), the two towns Tregenhof (3,100) and Neuteigh (2,900), and some greater can be as Praint (3,400) and Ohra (12,500) of the population are Evangelical and

Roman Catholic but the Mennonites are

DANZIG 47

ts en ance at Neufahrwas er no the Baltic Be lin by ra It s ra e ed by wo n_anch_s smal tributary of the Vistula dredged to a o large vessets reach the inner wharves. The is were removed on the north and west sides in



INDARIES OF THE FREE CITY OF DANZIG AS ESTAB-SATY OF VERSAILLES 1919 THE CITY, WHICH HAS A 147 M IS UNDER THE PROTECTION OF THE LEAGUE

enades and gardens, the Steffens park, outside 50 ac in extent, occupying the north-western

serves us picturesque mediaeval aspect. The of the Hanseatic days with lofty ornamented ed windows, are the delight of the visitor, but close to the entrance doors and abutting on the ring The Hohe Tor modelled after a Roman a remarkable monumental erection of the 16th runs the Lange Gasse, the main street, to the 1 this square stands the Artus- or Junker-hof ices of the middle ages were in Germany styled containing a hall richly decorated with wood res, once used as a banqueting room and now 'hange St Mary's church, begun in 1343 and 3, one of the largest Protestant churches in es a painting of the Last Judgment, formerly van Eyck, but probably by Memlinc Other include the beautiful Gothic town hall, with a armoury (Zeughaus) and the Franciscan mon-1871, and now housing the picture gallery and uities

zig 15 mentioned in 997 as an important town it was held by Pomerania, Poland, Brandenburg d after 1308 it prospered under the Teutonic me of the four chief towns of the Hanseztic when the Teutonic order had become thoroughly hook off its yoke and submitted to Poland, to ally ceded, along with West Prussia, at the peace ally subject to Poland and represented in the it the election of Polish kings, it enjoyed the ity, and governed a considerable territory with ages. It suffered severely through various wars .8th centuries, and in 1734, having declared in us Leszczynski, was besieged and taken by the ons At the first partition of Poland, in 1772, ated from that kingdom, and in 1793 it came n of Prussia. In 1807, during the war between iz, it was hombarded and captured by Marchal if Tilsit Napoleon declared it a free town, under f. France, Prussia and Saxony, restoring its A French governor however

ds on the left bank of the we term a m of he and by compering to subm or he Continenta system almost run d t. trade was green back to Prussia in 1814

The city of Danzig which until the close of the World War had been the capital of West Prussia, was separated with a part of the surrounding country from the German empire by the Treaty of Versailles, and received the status of a free city. The ruion acquired by the municipality has been! decision registered in Articles 100-108 of the treaty represented a compromise between the Polish demand for the cession to the new Pulish state of the most convenient outlet and mlet for Poush commerce, and the reluctance felt by the Peace Conference to place a city, 96% of whose population was German, under another sovereignty. The separation became effective Jan 10 1920, and the administration of the city and the territory was placed temporarily under Allied administration, until Nov 15 1920, when the formal proclamation of the free city of Danzig, as described in the Treaty of Versaules, was made by the representative of the League of Nations. The troops were withdrawn, and General Haking acted as high commissioner for the League until Feb 1923, when he was succeeded by Mr M S MacDonnell. who in turn was succeeded in Feb 1926 by Dr. van Hamel, a Dutch jurist Internal administration before the separation from Germany was under the burgomester. Herr Sahm, who, as soon as the constitution came into force, was elected president of the Senate

> Constitution.—The constitution, drafted by a Constituent Assembly elected in May 1920, was ratified, with some small amendments, by the League of Nations, and finally authorized by the high commissioner in May 1922. The international and public status of the free city as a state under the protection of the League of Nations, represented in Danzig by its own high commissioner. is based on Articles 100-108 of the Treaty of Versailles and the subsequent treaties between Danzig and Poland as provided for in the Treaty of Versailles Of these, the most important are the Danzig-Polish Treaty drafted by the Conference of Ambassadors with the assistance of delegations from the Polish and the Danzig states, and signed in Paris on Nov 9, 1920, and the Warsaw Convention of Oct 24, 1921 (a supplement to the first-named treaty) dealing mainly with economic questions. The high commissioner of the League of Nations decides in the first instance all differences arising between Danzig and Poland. The two parties retain the right of appeal to the Council of the League of Nations Poland's rights in Danzig are exclusively economic and ensure her free access to the sea The harbour and waterways are administered by a commission made up of five nominees of Danzig and Poland under a president, who must be of Swiss nationality and appointed by the Council of the League of Nations if Danzig and Poland cannot agree on his appointment. The administration of the railways in the free city, with the exception of narrow gauge railways and street tramways, forms part of the Polish State railway system. Danzig's special interests being protected by a representative of the free city on the directorate of the Polish railways.

> The conduct of the free city's foreign relations is committed to the Polish government, which is also entrusted with the protection of Danzig nationals abroad. The official language is German. The legislative body, the Volkstag, consists of 120 members The Senate consists of a president and seven senators holding chief office (elected for a term of four years) and a vice-president and 13 senators in adjunct office (elected for an indefinite period. depending on the confidence of the Volkstag) In accordance with the provision of the Treaty of Versailles the free city is in customs union with Poland Posts telegraphs and telephones are under the postal and telegraphic administration of the free city, which is a member of the international postal union. Poland is entitled to have a postal service office in the harbour for the purpose of maintaining direct communication between Danzig and Poland, as well as between Poland and overseas countries. The area of the harbour has been defined to include a large part of the town of Danzig (X)

> Education.—Besides numerous elementary technical and ad vanced and secondary schools, there is a technical imiversity with stall of 58 professors. In the term, 1927

were were thoo students,

Trade and Shipping.—The shuction of Danzig on the mouth my vith Peaulicand, by means of its tributiones and catals, with ' Germany the Ukraine and Lithiania. The so-colled. Dead Visto-In its navigable from the mouth at Neufahrwasser to a distance of a four makes for shape drawing 30ft and for a further two miles up , the river Motthal for vessels of about 14ft draught. Facilities are available for the repair and maintenance of ships. Up to 8 000 tors these can be accommodated in floating docks, of which there art sectul These are four dockyarus F Schichau, International Snipt-anding and Engineering Co. Ltd. / comprising the former language dockward and the rainty workshops), Klawitter, and manufacture. Mo an The International Shipbuilding and Engineering Co. Ltd . his on original capital of £10,000, English and French capital parunpaing with 30% each and Danzig and Polish capital with 20% each Schichau has built vessels of 35,000 tons. This dockyard was in 1928 especially occupied with the construction of bigger motor ships with an average tonnage of 10 000 tons each, and had at one period 63 000 tons of motorships on the stocks The free tasin has a wharfage of about 3 ooch and vessels drawing up to 26st. can de alongside. Electric cranes and warehouse inymphs (Pausanias viu 20. Parthemus, Erolica, 15). accommudation are provided and raimay connection exists with the main system. An emportant adjunct to the port is the island of Holm which has a basin of great potential value as a commercal harbour. A new basic for the transhipment of heavy goods has to be ready by .929

The chief imports are foodstuds, fertilizers chemicals, ore scrap-iron, machines hardware building materials, raw cotton and testifies, the principal exports are coal, timber, sugar, grain, cement, naphtha, iron and steel Large granaries and warehouses for sugar and grain stand near the wharves or the port, where are tanks which ariord storage capacity for over 66 300 tons of naphtha. As for timber, 1 700,000 tons can be loaded during one year Large umber ponds are on the Holm island and extend for several nules along the bank of the "Dead Vistula' between Danzig and Pleamersforf The port is practically ice-free, and has great commercial possibilities, the natural features of the waterways and surrounding country rendering expansion easy. Thanks largely to the protection afforded by the peninsula of Hela, it has special advantages of security. There is scarcely any current the main river having received another outlet to the sea several miles further east, near to Schiewenborst

Danzig's mercantile fleet consists of 53 vessels with 127,000 gross registered cons There are regular passenger-and-cargo sailings from the port of Danzig to nearly all the ports of the Baltic and the North sea, to New York, Philadelphia and the Atlantic ports of Canaca, and to London and Hul. As to the railway treme there are duect express passenger trains from Danzig to all the chief centres of Germany, Poland and the Baluc states Danzag is an important junction of aeroplane communications. Aeroplanes leave Danzig regularly for Berlin, Konigsberg, Warsaw and during the stammer for Stettin. Elbing, Allenstein, Marienburg, Riga and Moscow. Further communications to Helsingfors and to Libau are contemplated

Banking and Finance.—The free city has its own currency, based on the guiden (fixed at 1, 25th of the sterling and divided into 100 piennigs) This new currency was introduced by the Bank of Danzig, as an emission bank, in the beginning of the year 19:4. The fully paid-up capital of the bank is 7,500,000 gulden. Besides the Bank of Danzig there are five big Danzig banks. as well as branches of most of the important German and Polish banks. There is also a produce and a stock exchange.

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(M S M.) DAPHNAR (Tahpanhes mod. Defenneh), an ancient fortress mear the Sytian frontier of Egypt, on the Pelusian arm of the Nile Here King Pseumetichus established a garrison of foreign mer-

cenaries, mostly Carrans and Ionian Greeks After the destruction of Jerusalem by Nebuchadrezzar in 588 B C., the Jewish fugitives of the river Visital a most in ourable. The Visitale connects Dan- 1 of whom Jeremiah was one, came to Tahpannes When Naucrans was given by Amasis II the monopoly of Greek traffic the Greeks were all removed from Daphnae and the place never recovered its prosperity, in Herodotus's time the deserted remains of the docks and buildings were visible. The site was discovered by Sir Flinders Petrie in 1856, the name "Castle of the Jew & Daughter" seems to preserve the tradition of the Jewish refugees There is a massive fort and enclosure; the chief discovery was a large number of fragments of pottery, which show the characteristics of Ionian art, but their shapes and other details testify to their local

DAPHNE (Gr laurel tree), in Greek mythology, was the daughter of the Arcadian river-god Ladon, or the Thessalian Peneus, or of the Lacoman Amyclas She was beloved by Apollo, and when pursued by him was changed by her mother Ge into a laurel tree (Ovid. Metam., i 452-567) In the Peloponnesian legends, another suitor of Daphne, Leucippus, son of Oenomaus of Pisa, disguised himself as a girl and joined her companions His sex was discovered while bathing, and he was slain by the

DAPHNE, in botany, a genus of shrubs, belonging to the family Thymelaeaceae, and containing about 40 species, natives of Europe and temperate Asia D Laureola, spurge laurel, a small evergreen shrub with green flowers in the leaf axils towards the ends of the branches and ovoid black very poisonous berries, is found in England in copses and on hedge-hanks in stiff soils O Mesercum, mezereon, a rather larger shrub, a to 4ft high, has deciduous leaves and bears fragrant pink flowers in clusters in the axils of last season's leaves in early spring before the foliage. The bright red ovoid berries are cathartic, the whole plant is acrid and poisonous, and the bark is used medicinally. It is a native or Europe and north Asia, and found apparently wild in copses and woods in Britain It is a well-known garden plant, and several other species of the genus are custivated in the open air and as greenhouse plants D Cnearum (garland-flower) is a hardy ever green trailing shrub, with pink sweet-scentred flowers D pontice (eastern Europe) is a hardy spreading evergreen with greenishyellow fragrant flowers D indica (China) and D japonica (Japan) are greenhouse evergreens with respectively red or white and pinkish-purple flowers

DAPHNEPHORIA, a festival held every muth year at Thebes in Bocotia in bonour of Apollo Ismenius or Galaxius It consisted of a procession in which the chief figure was a boy, of good family and noble appearance, whose father and mother must be alive Immediately in front of the boy, who was called Daphnephoros ("laurel bearer"), walked one of his nearest relations carrying an olive branch hung with laurel and flowers and having on the upper end a bronze ball from which hung several smaller balls Another smaller bail was placed on the middle of the branch or pole which was then twined round with ribbons.

These balls were said to indicate the sun, stars and moon, while the ribbons referred to the days of the year, being 365 in number Then followed a chorus of maidens carrying suppliant branches and singing a hymn to the god The Daphnephoros dedicated a bronze tripod in the temple of Apollo The festival is described by Proclus (in Photius cod 239)

See also A Monumsen, Feste der Stadt Athen (1898), L R Farneil. Cults of the Greek States, IV 284-286.

DAPHNIS, the legendary hero of the shepherds of Sichy and reputed inventor of bucolic poetry. According to his countryman Diodorus (iv 84), and Achan (Var. Hist x. 18), Dapbnis was the son of Hermes and a Sicilian nymph and was found by shepherds in a grove of laurels (whence his name). He won the affection of a nymph, who made him promise to love none but her, threatening that if he proved unfaithful he would lose his eyesight He failed to keep his promise and was smitten with blindness. Daphnis, who endeavoured to console himself by playing the flute and singing shepherds' songs, soon afterwards died or was taken up to heaven by his father Hermes with caused a spring of water to gush out from the spot where the son had been carried off. Ever afterwards, the Sicilians offered and skirmished, but did not attack. Only a short time before, a sacrifices at this spung. In Theocritus, Id. I., Daphnis' apparation apparation of the partial properties at this spung. In Theocritus, Id. I., Daphnis' apparation by the Ephthalite Huns. Pezozes did not like the unusual smuten with unrequited love, he dies, although Aphrodite. Steadiness in the Roman ranks any more than he liked the ditch moved by compassion endeavours, but too late, to save him.

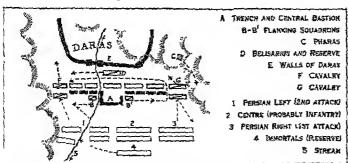
See H W. Stoll in Roscher's Lexikon, and G. Knaack in Pauly-Wissowa's Realencyklopadie.

DARAB, a town of Fars, in Persia, and headquarters of a district of the same name, situated in 28° 45′ N, 54° 5-′ E, at an elevation of 4,000 ft, on the Shiraz, Fasa, Furg, Bandar Abbas caravan route, about 140 m from the first-named and 208 m from the last. It is a straggling place with an estimated population of 6,000. The district around produces oranges and lemons in abundance, and tobacco of good quality is cultivated extensively in Iraman legend, the foundation of the town, known also as Darab-gird, is attributed to Darab, father of Dara (Darius III) About 4 m to the south-west, is a large circular earthwork known as Kalah-i-Darab, described in Sir W. Ouseley's Trave's (1819), the bistory of which is unknown. Another monument in the vicinity is a gigantic bas-renef carved on the vertical face of a tock, representing the victory of the Sasanian Shapur I, over the Roman emperor Valerian, An 260

D'ARANYI, JELLY (1895—), Hungarian violinist, grand-niece of Dr. Joachim and one of the most brilliant players of her day, was born at Budapest on May 3, 1895. She studied under Hubay and quickly attracted notice by her exceptional powers, eventually winning world-wide recognition. She resides in London. Her sister, Madame Adila Fachiri, also a violinist, is blewise a player of the first rank.

DARAS, a fortified Roman city on the Mesopotamian fronter about 12 miles NW. of Nisibis, founded AD. 504 by Anastasius to replace Nisibis, ceded to the Persians AD 363. It was built near the head of, and almost completely blocking, a narrow valley running north-north-east and south-south-west. It flanked the road to Mardin

Belisarius, aged 24, appointed General of the East by Justiman in 529, was stationed here in June, 530, when Pezozes arrived at Nisibis with a Persian army of 40 000 horse and foot, to invade the Roman empire. Reinforcements from Lebauon raised Belisarius' army to 25 000 undisciplined troops, discouraged by recent defeats. Daras was dominated on three sides by high ground. This, and the low spirits of the troops, made it unwise to stand a siege. Belisarius caused a ditch to be dug across the valley, the flanks protected by the high ground unsuited to cavalry. Openings allowed the Romans to counter-attack. In the centre a rectangular projection, like an entrenched camp, gave flanking fire across the front and protected the front and exposed flanks of



FLAN OF THE BATTLE OF DARAS, A D. 530, IN WHICH BELISARIUS DEFEATED THE PERSIANS

two bodies of 600 Hunnish light cavalry, placed on either side of this bastion. Infantry manned the centre, and cavalry was posted on the flanks. In concealment, on the high ground beyond the Roman left (east) flank, was posted a squadron of 300 light horse, under Pharas. Belisarius kept a reserve under his own hand. The city walls gave the protection of overhead fire from the bows of the inhabitants of Daras and, probably, artillery engines.

Pezozes arrayed his host in two lines. He kept the "Immortals" in reserve. The first day the Persians looked over the situation

It is erroneous to suppose that every shepherd called Daphnis in pastoral poetry and romance is this Daphnis.

and skirmished, but did not attack. Only a short time before, a Persian force had ridden to disaster into a similar ditch dug for them by the Ephthalite Huns. Pezozes did not like the unusual steatiness in the Roman ranks any more than he liked the ditch. Also a stream, whose bed was four feet deep, probably interfered with his power to manoeuvre. The next day reinforcements brought the Persian strength to a total said to be 50,000 men. The Persians advanced about noon. Pezozes relieved the front line with the second to keep up a continuous fire of archery, but the wind favoured the Roman bowmen. Both sides suffered heavy losses in this missile fight. The Persian horse charged the Roman left. The Roman cavalry gave way. Then the squadron of Pharas, moving along the high ground, fell on the Persian rear, and the 600 Hunnish cavalry from the left (east) angle of the central bastion, took the enemy in flank. The Persian horse was routed with heavy loss.

Belsarius noted a movement of the Persians, including the "Immortals," toward his right. He ordered the victorious Huns from the left flank to reinforce the similar detachment on the right, and added troops from his reserve. The Persian attack drove in the Roman cavalry on their front, but the Huns, charging from the west angle of the trench, penetrated between the two Persian lines and created disorder. The reinforcements sent by Belisarius charged also, and the defeated Roman cavalry rallied and counter-attacked. Surprised and almost surrounded, the Persians broke. The Roman lines now advanced across the ditch, and the victorious cavalry rolled up the Persian flank. Belisarius called an early halt to the pursuit lest his undisciplined troops might get out of hand and fall into an ambush.

This victory restored the prestige of Roman arms, raised morale and discipline, and established the reputation of Belisarius. The use of the ditch afforded security to the weakest part of the line. By its location, it protected the front, flanks and rear. It economized force by making use of the wills of Daras and the citizens to cover a possible retirement. It left the cavalry the greatest freedom of manoeuvre. Finally, it permitted a counter-attack.

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(J. M. Sc.)

DARBHANGA, a town and district of British India, in the Tirbut division of Behar and Orissa. The town is on the left bank of the Little Baghmati river, and has a railway station. Pop (1921) 53,700. The town is really a collection of villages round the residence of the Maharaja, a large modern building in extensive grounds There are a hospital, with a medical college and a Lady Dufferin hospital attached, and a town hall and large tanks extending for over a mile. The district of Darbhanga extends from the Nepal frontier to the Ganges. Area 3,348 sq m Pop. (1901) 2,913,529 The district consists entirely of an alluvial plain, in which the principal rivers are the Ganges. Burh Gandak, Baghmati and Little Baghmati, Balan and Little Balan, and Tiljuga Rice is the staple crop, and the cultivator is especially dependent on the winter harvest. In 1897 a famine affected the whole district except the Samastipur subdivision, and another affected half the district in 1906-07. Indigo manufacture was formerly an important industry but has declined Sugar cultivation and manufacture have to some extent taken its place. To bacco is also a valuable crop. The district is traversed by the main line of the Bengal and North-Western railway. Pusa (qv) in the west of the district is the headquarters of the Imperial Agricultural Department

The Darbhanga raj, which was founded in the 16th century, is a name applied to a large estate which includes parts of the districts of Darbhanga, Muzaffarpur, Monghyr, Purnea and Bhagal Roth Roth Roth Standard of the March Workshape

D'ARBLAY, FRANCES (1752-1840). English novelist and charist better known as Fanny Burney, daughter of Dr Charles Eurney 190 h, was born at King's Lynn Norfolk, on June 11 1742. Her my their was Escher Sleepe, granddaughter of a French refugre named Dubois. Tanny was the fourth child in a famus of six Of her biothers James (1730-1821) became an adviral and solled with Captain Cook on his second and third voyages and Charles Barney (1757-1817) was a well-known classical substar. In 1700 the family removed to London, and Dr Busines who was now a tashionable music-master, took a house in Poland street. Mrs Barney died in 1701, when Fanny was only one years old Her sisters Esther (Hetty) afterwards Mrs Charles Rousseau Burney, and Susanna, afterwards Mrs Phillips. were sent to school in Paris, but Fanny was left to educate herself. E. rly ir. 1766 she paid her first vicit to Dr. Burney's friend Simuel Cosp at Chassington Hall near Epsom. Dr Burney had first made Samuel Crisp's acquaintance about 1745 at the house of Fulse Graville grandfather of the diarist and the two studied that while the rest of the guests bunted. Crisp wrote a play. Virgina, weich was staged by David Garrick in 1754 at the request of the beautiful countess of Coventry Inie Mana Gunning). The play had no great success and in 1704 Crisp established himself in reurement at Chessington Hall where he frequently envertained his sister Mr. Sophia Gast of Burford, Oxfordshire, and Dr Euroey and his famile to whom he was familiarly known as "daddy" Crisp! It was to her "daddy" Crisp and her sister Susan that Family Burney addressed large portions of her diary and mary of her letters After his wife's death in 1767, Dr. Barney married Elizabeth Allen, widow of a King's Lynn wine-

From her 15th year Fanny lived in the midst of a brilliant social circle gathered round her father in Poland street and later in his new home in St. Martin's street, Leicester Fields, London Garrick was a frequent visitor and would arrive before eight e clock in the morning Of the various 'hons' they entertained she leaves a graphic account, notably of Omai, the Otageitan vative, and of Alexis Orlov, the favourite of Catherine II of Russia. Dr. Johnson she first met at her father's bome in March 17.7. Her father's drawing-oom, where she met many of the chief musicians actors and authors of the day, was in fact Fanny's only school. Her reading, however, was by no means limited. Macaulay stated that in the whole of Dr Burney's library there was but one novei, Fielding's Amelia, but Austin Dobson points out that she was acquamied with the abbé Prévost's Doyen de Killerine, and with Marivaux . The de Marienne, besides Curissa Historie and the books of Mrs. Elizabeth Griffith and Mrs. Frances Brooks. Her deary also contains the record of much more strenuous reading. Her stepmother, a woman of some cultivation, the not en ourage hibits of scribbing. Fanny therefore, made a bondire of her mass. among them a History of Coroline Evelyn, z story commanne an account of Evelina's mother. Luckely her goarnal did not meet with the same fate. The first entry in it was roads on May 3c, 1-53, and it extended over 72 years. The cerber partiens of it underwent wholesale editing in later days, and ranch of it was entirely obliterated She planned out Eveling, w & Young Ludy's Entrance into the World, long before it was written duwn. Lealing was published by Thomas Lowndes in the end of Jan. 1778, but it was not until June that Dr. Burney learned its authorship, when the book had been reviewed and praised esserywhere. Fenny proudly told Mrs. Thrale the secret. Mrs.

His letters to Mr. Cast and another sister, Anne, were edited with the bille of Berfore Papers (1906), by W. H. Hutton.

Thrale wrote to Dr Burney on July Mr John on re uned home full of he Prayes of the Book I had lent hun, and pre testing that there were passages in it which might do honour to Richardson we talk of it for ever, and he feels ardent after the denouement, he could not get rid of the Rogue, he said "Miss Burney soon visited the Thrales at Streatham, "the most consequential day I have spent since my birth' she calls the occasion It was the prelude to much longer visits there Dr Johnson's best compliments were made for her benefit, and eagerly transcribed in her diary. His affectionate friendship for "little Burney" only ceased with his death

Evelua was a continued success Sir Joshua Reynolds sat up all night to read it as did Edmund Burke, who came next to Johnson in Miss Burney's esteem She was introduced to Ehzabeth Montagu and the other bluestocking ladies, to Richard Brinsley Sheridan and to the gay Mrs Mary Cholmondeley, the sister of Peg Woffington, whose manners, as described in the diary, explain much of Evelnia. At the suggestion of Mrs Thrale, and with offers of help from Arthur Murphy and encouragement from Sheridan, Fanny began to write a comedy Crisp, realizing the himitations of her powers, tried to dissuade her, and the piece. The Withings, was suppressed in deference to what she called a "hissing, groaning, catcalling epistle" from her two "daddies" Meanwhile her intercourse with Mrs Thrale proved very exact. ing and left her little time for writing She went with her to Bath in 1780, and was at Streatham again in 1781. Her next book was written partly at Chessington and after much discussion with Mr Crisp Ceculia, or Memoirs of an Heiress, by the author of Evelua, was published in 5 vols in 1782 by Messrs Payne and Cadell (who paid the author £250—not £2,000 as stated by Macaular)

On April 24, 1783, Fanny Burney's "most judicious adviser and stimulating critic" diddy" Crisp, died. He was her devoted friend as she was to him, 'the dearest thing on earth' The next year she was to lose two more friends. Mrs. Thrule marned Prozzi, and Johnson died Fanny had met the celebrated Mrs. Delany in 1783, and she now attached horself to her Mrs Delany. who was living (1785) in a house near Windsor castle presented to her by George III, was on the friendhest terms with both the king and queen, and Queen Charlotte soon after offered Miss Burney the post of second keeper of the robes, with a salary of 1200 a year, which after some hesitation was accepted. Fanny's own musgivings as to her unfilness for court life were quite justihed From Queen Charlotte she received unvarying kindness, though she was not very clever with her waiting-maid's duties. She had to attend the queen's toilet, to take care of her lap-dog and her snuff-box, and to help her senior, Mrs Schwellenberg, in entertaining the king's equerries and visitors at tea. The constant association with Mrs Schwellenberg, who has been described as "a peevish old person of uncertain temper and impaired health, swaddled in the buckram of backstairs eviquette," proved to be the worst part of Fanny's duties The strain told on her health, and after pressure both from Fanny and her numerous friends, Dr Burney prepared with her a joint memorial asking the queer's leave to resign She left the royal service in July 1701 with a retiring pension of £100 a year, granted from the queen's private purse and returned to her father's house at Chelsea

In 1792 she became acquainted with a group of French enles, who had taken a house, Juniper Hall, near Mickleham, where Fanny's sister, Mrs. Phillips lived On July 31, 1793, she married one of the exiles, Alexandre D'Arblay, an artillery officer, who had been adjutant-general to La Fayette. They took a cottage at Bookham on the strength, it appears, of Miss Bunney's pension In 1793 she produced her Brief Reflections relative to the Emigrant French Clergy. Her son Alexandre was born eat Dec. 13, 1794. In the following spring Shemidan produced at Drury Lane her Edwy and Elgiva, a tragedy which was not saved even by the acting of the Kembles and Mrs. Siddons. The play was never printed. Madame D'Arblay issued her next novel, Camilla: or A Picture of Youth (5 vols. 1796) by subscripting by which she made over £2,000. Jane Austen was among the actingers.

second play, Love and Fashion, was actually put in rehearsal in 1700 but was withdrawn in the next year. In 1301 Madame D'Arbiay accompanied her husband to Paris where he eventually obtained a place in the civil service. In 1812 she returned to England, bringing with her her son Alexandre to escape the conscription In 1814 she published The Wanderer; or Female Difficulnes Possibly because readers expected to find a description of her impressions of revolutionary France it had a large sale. from which the author realized £7,000. Nobody, it has been said, ever read The Wanderer At the end of that year she returned to France During the Hundred Days of 1815 she was in Belgium, and the vivid account in her Dury of Brussels during Waterloo may have been used by Thackeray in Venity Fair D'Arblay now received permission to settle in England. After his death at Bath on May 3, 1818, his wife heed in Bolton street. Piccadilly There she was visited in 1826 by Sir Walter Scott, who describes her (Journal, Nov 18, 1826) as an elderly lady with no remains of personal beauty, but with a gentle manner and a pleasing countenance. The later years of her life were occupied with the editing of the Memoirs of Dr Burney, arranged from his own Manuscripts, from family papers and from personal recollections (3 vols, 1832) Her style had, as time went on, altered for the worse, and this book is full of extraordinary aftectations Madame D'Arblay died in London on Jan 6, 1840 and was buried at Walcot, Bath, near her son and husband

Madame D'Arblay's best title to the affections of modern readers is the Diary and Letters. Dr. Johnson lives in its pages almost as vividly as in those of Boswell, and King George and his wife in a friendlier light than in most of their contemporary portraits. Croker, in The Quarterly Review, April 1833 and June 1842, made two attacks on Madame D'Arblay. The first is an unfriendly but largely justifiable criticism on the Memoirs of Dr. Burney. In the second, a review of the first three volumes of the Diary and Letters, Croker abused the writer's innocent vamity, and declared that, considering their bulk and pretensions, the Diary and Letters were "nearly the most worthless we have ever waded through." These pronouncements drew forth the eloquent defence by Lord Macaulay, first printed in The Edinburgh Review, Jan 1845, which perhaps did more than anything else to maintain Madame D'Arblay's constant popularity

Bibliography—The Dury and Letters of Madame D'Arblay was edited by her niece, Charlotte Frances Barrett. in 7 vols (1842-46) The text, covering the years 1778-1840, was edited with preface, notes and reproductions of contemporary portraits and other illustrations, by Mr. Austin Dobson in 6 vols. (1004-05) This Dury, which begins with the publication of Evenue, was supplemented in 1880 by The Early Diary of Frances Burney (1768-78), which in the first instance had been suppressed as being of purely private interest, edited by Mrs Annie Raine Filis, with an introduction giving many particulary of the Burney family. Mrs Ellis also edited Beelina for "Bohn's Novelist's Library" in 1881, and Cecilia in 1882 See also Austin Dobson, Fanny Burney (Modame D'Arblay) (1903), in the "English Men of Letters Series"; S E Burney, The Early Diary of Frances Burney, with a selection from the journals of her sisters Sasan and Charlotte Burney (1907); F F Moore, The Keeper of the Robes, (1911), C. B Tinker, Dr Johnson and Fanny Burney (1912), T B Macaulay, Essay on Frances Burney (1919); R B Johnson, Fanny Burney and the Burneys (1926)

DARBOUX, JEAN GASTON (1842-1917), French mathematician, was born at Nîmes on Aug 13. 1842 His father died in 1849, and under the guidance of his mother, and with her encouragement, he was educated at the Ecole Normale, Pans Pasteur became interested in Darboux, and created a teaching post for him at the Ecole Normale After acting as assistant to Bertrand in the chair of mathematical physics at the Collège de France (1866-67) he became successively professor of mathematics at the lycée Louis le Grand (1867-72), Maître de conférences at the Ecole Normale (1872-73), assistant to the professor of rational mechanics at the Sorbonne (1873-80), professor of higher geometry at the Sorbonne (1850-89), dean of the faculty of science (1889-90) and perpetual secretary of the Academy of Science Darboux, besides being an excellent ter the rate protection m Paris on Feb. 25, 1917.

Practically all his mathematical work was on geometry, his early papers (1864 and 1366) were on orthogonal surfaces, these were followed by a memoir on partial differential equations of the second order (1870), which embodied a new method of integration. In his treatise Sur une Classe remarquable des courbes (1873) Darboux developed the theory of the class of surfaces called cyclides. Leçons sur la Théorie generale des surfaces et les applications géome triques du calcul infinitésimal (4 vols., 1887-96) is one of Darboux's most important works, dealing with infinitesimal geometry, it embodies most of his previous research work. In 1898 the publication of Leçons sur les systèmes orthogonaux et les coordonnées cur alignes was commenced. Darboux was the author of a number of papers and memoirs on the approximation to functions of very large numbers on discontinuous functions and on other subjects.

Darboux held honorary degrees of many foreign universities, he was a foreign member of the Royal Society and in 1916 was awarded the Sylvester Medal

DARBOY, GEORGES (1813-1871), archbishop of Pans, was born at Fayl-Billot in Haute Marne on Jan 16, 1813 He was appointed bishop of Nancy in 1859, and in January 1863 was raised to the archbishopus of Paris. The archbishop was a strenuous upholder of episcopal independence in the Galbcan sense, and sought to suppress the jurisdiction of the Jesuits and other religious orders within his diocese. At the Vatican council (qv) he strongly opposed the dogma of papal infallibility, against which he voted as inopportune. When the dogma had been finally adopted, however, he submitted. During the Franco-Prussian War he organized relief for the wounded and remained at his post during the siege of Paris and the brief triumph of the Commune On April 4, 1871, he was arrested by the Communards as a hostage and confined in the prison at Mazas, from which he was transferred to La Roquette on the advance of the army of Versailles On May 27 he was shot within the prison along with other hostages. He died in the attitude of blessing and uttering words of forgiveness. His body was recovered with duficulty and received a public funeral (June 7) Darboy was the third archbishop of Paris who perished by violence between 1848 and 1871 He wrote a Vie de St. Thomas Becket (1859) and translated the works of St Denis the Areopagite and the Imitation of Christ. See J A Foulon, Histoire de la vie et des oeuvres de Mgr. Darboy (1889), and J Guillermin, Vie de Mgr. Darboy (1888), birgraphies written from the clerical standpoint.

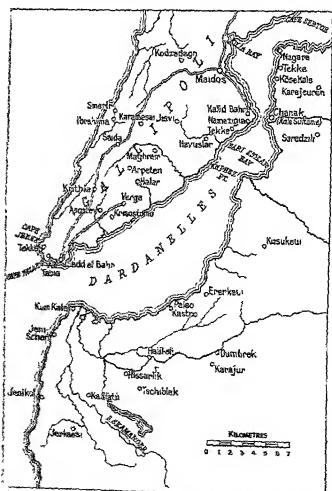
DARBY, a borough of Delaware county, Pa. USA. on the south-west border of Philadelphia, near the Delaware river, served by the Baltimore and Ohio, and the Pennsylvania railways. It is a residential suburb and has factories making cotton and woollen goods, yarn, motor boats, pearl buttons and water filters. Its population was 7,922 in 1920, and was estimated locally at 10 000 in 1928. Darby was settled by eight Friends, in 1682, and has one of the oldest libraries in the country. It was incorporated in 1853, but most of its development has taken place since 1900.

DARCY, THOMAS DARCY, BARON (1467-1537), English soldier, was a son of Sir William Darcy (d. 1488). In 1505, having been created Baron Darcy, he was made warden of the east marches towards Scotland. In 1511 Darcy led some troops to Spain to help Ferdinand and Isabella against the Moors, but he returned almost at once to England, and was with Henry VIII. on his French campaign two years later. Darcy, who was one of the most powerful nobles on the border, was also a member of the royal council, dividing his time between state duties in London and a more active life in the north. He brought forward accusations against his former friend, Cardinal Wolsey, however, after the cardinal's fall his words and actions caused him to be suspected by Henry VIII Dishking the separation from Rome, Darcy asserted that matrimonial cases were matters for the decision of the spiritual power, and he communicated with Eustace Chapuys, the ambassador of the emperor Charles V, about an invasion of England in the interests of the Roman Catholies. Detained in London by the king, he was not allowed to return to Yorkshire until late in 1535, and about a year after his arrival in the north the rising known as the Pilgrimage of Grace broke , out For a short time Darcy defended Pontefract Castle against

it Dinessier being regarded as one of their leaders. Dircy may ! tave assisted to suppress the meing which was renowed under Sir! Francis signed every in 1537, but the king behaved probably with poor reason and he was finity of tresh treasons and he was setzed and hurned to Littlem. Tried by his peers. Darry was found turns of treason and was beheaded on June of 1037

DARDANELLES (Turk Change Kale), the omef town of a Turkish Mayer which includes the peninsula of Gallipoli (q v) ne accrem Troad and the adjoining islands. Pop. (1927) 18740 it is attacked at the mouth of the Rhochus and at the narrowest art of the strait of the Dardonelles, where its span is but a the across. The pottery trade, from which the town derived is Tarkish name (Cunth means put in Osmanh) has declined n importance, valence and certals are the chief products of this ecuon.

DARDANELLES (Turk Bubr-Sefed Boghazi), the strat anciently called the Helesport; that unites the Sea of Marmora such the Aegean The city of Dardanus in the Troad, where Michridates and Sulle signed a treaty in 84 B.C. gave the strait ts came. The shores are formed by the peninsula of Gallipoli in the north-west and by Asia Minor on the south-east; it exeads for a distance of about 4-m with an average breadth of 3 or 4 miles. At the Aegean extremity stand the castles of Sedil Bahr and Kum Kaleh respectively in Europe and Asia; and near he Marmora extremity is the town of Gallipoli (Callipolis) on he northern shore and that of Lamsaki or Lapsaki (Lampsacus) on the southern. The two most famous castles of the Dardanelles



THE STRAIT OF THE DARDAUSLIES WHICH IN WAR TIME CAN BE MADE

are Chanak-Kalebsi, Suitanieh-Kalebsi, or the Old Castle of Anatolis, and Kilid-Rahr, or the Old Castle of Runcha. The wrong has how from -- a: in history since the passage of

Le rebels but soon be surrendered to them this stronghold, which of Here and Leanner, and of Byron's successful attempt to rival te could a ready gate be a a little longer, and was with them I Leander. The strategic importance of the strait has always been very great, since it is the gateway to Constantinople and the Black Sea from the Mediterranean Although easily capable of defence, the strait was forced by the English admiral, Sir J T Duckworth, in 1807, and during the World War a British sub marine under the command of Lieutenant-commander Stoker penetrated through the Turkish minefields and sank a Turkish battleship off the Golden Horn. Its strategic importance has given to it an international political importance that has found expression in what is known as the Straits (Dardanelles and Bosphorus) Question (q v)(I F D M)

DARDANELLES CAMPAIGN. This campaign, brought about by a desire on the part of the Allies that communications should be opened up from the Mediterranean into the Black sea with a view to assisting Russia, was begun in Feb 1915 as a purely naval undertaking (See World War, Naval)

But it had been realized from the outset that, even should the warships succeed in attaining their object, land forces would sooner or later be required to aid in the campaign, if only to secure the communications of the fleet after it had passed into the Sea of Marmora Before the failure of the naval attack of March 18, Alked troops had been set in motion for the Aegean Some were already in Lemnos, and Sir Ian Hamilton, chosen as commander-in-chief of the military contingents had arrived in time to witness the fight of the 18th. In view of its result, the Allied Covernments decided that from this time onwards the gathering army must assume the principal rôle in the effort to secure possession of the straits Hamilton was unable to initiate land operations at once The Turks were making preparations to repel landings on both sides of the straits, while the troops at nis disposal were partly in Egypt, partly at Lemnos, and partly on the high seas, en route from their respective bases in England

Organization in Egypt .- He decided therefore that his army must in the first place be concentrated in Egypt, to be organized for the hazardous undertaking to which it was about to be committed, and that it must then be disposed in transports in accordance with tactical requirements in anticipation of a landing in face of the enemy A month was lost in consequence. During that month the Turkish army was formed (March 24) to guard the straits Marshai Liman von Sanders, head of the German military mission in Turkey was appointed its commander-inchief, and under his instructions the defence system, organized in consequence of the warming offered by the naval operations, was overhauled and developed.

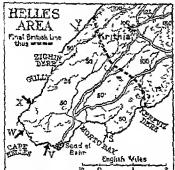
The Alhed force was composed of five divisions-two (the 29th and the Royal Naval) furnished by the United Kingdom, two formed of Australian and New Zealand troops, and one composed of French colonial troops Against this force Liman von Sanders could pit six divisions, but these were perforce dispersed. two (3rd and 11th) were watching the coast on the Asiatic side, two (5th and 7th) were near Bulair to guard against a landing at the neck of the Gallipoli pennsula, while the remainder (oth and 13th) were disposed towards its southern end.

I THE FIRST LANDINGS

The expeditionary force concentrated in Mudros bay. Lemnos. in the third week of April Hamilton contemplated two distinct major operations to secure a footing on the Galupon peninsula. The 29th Div, supported by the Royal Naval Div, was to be put ashore at its extremity, an area which it is convenient to designate as Helles; the Australian and New Zealand Divs. under Sir W. Birdwood were to land just north of Gaba Tepe, where there are extensive beaches But part of the one available French division was furthermore to effect a descent at Kum Kale, opposite Helles, as a subsidiary operation, subsequently being transferred to Helles After a short delay, enforced by bad weather, the armada put to sea during the nights of April 23-24 and 24-25, so that the transports and the covering warships should YTE 1..... 'y 'THE ' bosts. It is the scene of the story | and the day broke calm after a placid night arrive at their various rendezvous at or before dawn on the 25th,

Landing at Cape Helles .- Five points had been selected in apart, and what amounted to little more than a patch of ground the Helies area for attack Enumerating from right to left the beaches were "S' in Morto bay, 'V" and "W' on either side of Cape Helles, and "X" and 'Y" on the outer shore The attacks at "S' and "Y" were intended to be subsidiary, but great importance was attached to "W" and V, as those two beaches offered the most suitable landing places from the point of view

of subsequent operations. Owing to its vicinity to "W," "X" was calculated to play a very prominent part in the affair as a whole Covered by the fire of battleships and cruisers, the troops started in flotillas of boats soon after dawn for all points, and, as it turned out, the actual disembarkations at "S," "X" and "Y" were carned out without any great difficulty But at "W" the troops gained a footing only after incurring heavy loss, while at MAP showing the LANDING "V," where a large part of the BEACHES S. V. W. X. Y. AT GALlanding force was carried in the LIPOLI



steamer "River Clyde" which was run ashore, the effort nearly failed altogether. After hard fighting all day the position at nightfall was that the troops landed at "W" and "X" beaches had joined hands and that a battalion was established at "S." while the situation at "V" was critical, as also at "Y"; but during the night more troops were got ashore at "V," and those at "Y" were safely withdrawn and re-embarked next morning Losses had been severe

Landing at Kum Kale .-- In the meantime a French brigade had, after a tough struggle, effected a lodgement at Kum Kale (Qum Qal'e) The Turks were in strong force here, so that any advance by the French was out of the question, but their presence on the Asiatic side was being indirectly helpful to secure a footing on the further shore. Some little progress was made on the morrow in spite of determined resistance by the enemy, additional troops were landed, and during the night the French were withdrawn from Kum Kale and they were landed at "V" beach on the 27th On that day the Allies' line was again advanced by a few hundreds of yards, but the Turks had received substantial reinforcements in this quarter, and but little ground was gained when Hamilton ordered a fresh attack on the 28th. The invaders had suffered very heavy losses during the initial landing and the subsequent streauous encounters, and there were no reserves on the spot to fill the gaps that had been created in the ranks

Landing at Anzac.-Birdwood's divisions had in the meantime effected a lodgement to the north of Gaha Tepe. The actual disembarkation had in this case been started before dawn on the 25th at a point about a mile and a half north of the Gaba Tepe promontory, and at a spot where the hills rose abruptly from the actual beach which came to be known as Anzac A haphazard line on the heights immediately above the beach had been secured at once, the Turks being in weak force at the moment when the advanced parties of invaders reached the shore, but the defenders were able to hurry reinforcements to the point of danger and the actual area secured was of limited extent. Won practically at the first blow, it provided but a scanty water supply, it presented great inconveniences and its beach was much exposed in the event of bad weather setting in; it was but slightly extended during the following three months, for Liman von Sanders realized that owing to its proximity to the narrows of the Dardanelles, it represented a very serious danger to the Turks, and he took steps accordingly. Although the Ottoman troops delivered vigorous counter-attacks on the 26th, these were bester off with loss to the assailants, and by the night of April 27-28 the position of which Birdwood had contrived to gain possession had come to be, tactically, fairly secure

Hamilton thus gained a somewhat precarious footing at two points of the peninsula But his two forces were some 15m.

had been won in either case. His intentions were now completely exposed to the enemy and the great advantage of surprise had passed away without his force having established itself in a dominating position capable of being turned to satisfactory ac count in subsequent operations. In both areas the Turks enjoyed the tactical command, they were at least equal in force to the Allies, their guns were able to bear with effect upon the beaches used as landing places and advanced bases, and, although at this time of the year the weather was generally calm, these beathes provided but inadequate facilities for the landing of ammunition, armament or stores.

Reinforcements.—Early in May the Albes' contingents planted in the Helles area were strengthened by the arrival of the British 42nd Div. an Indian brigade, and the French and Division Some ground was gained on May 6 and during the next day or two determined counter-attacks on the part of the enemy were effectually repulsed The two French divisions were occupying the right of the line, next to the straits, and that arrangement held good up to the time when the Gallipoli peninsula was finally evacuated early in January in the following year Both here and facing the Australasian troops at Anzac the Turks had dug themselves in, establishing elaborate defences, and trench warfare was becoming the order of the day.

During the month a state of stalemate ser in, and although ground was gained by the Allies in attacks delivered in the Helles area on June 4, 21 and 28 and during the month of July the line was gradually pushed forward near Krithia, the situation was so unpromising that the British Government, decided to send five more divisions (10th, 11th, 13th, 53rd and 54th) to the Aegean These arrived at the islands of Mytilene and Imbros during the closing days of July and the first days of August. Hamilton's artillery was at the same time strengthened, and his very inadequate ammunition supply somewhat improved But Liman von Sanders was likewise receiving reinforcements, and, although the Ottoman maritime communications with the Gallipoli peninsula were from time to time imperilled by the submarines of the Allies, the relative strength of the two opposing armies facing each other in the theatre of war was not, as it turned out greatly affected by the appearance of the fresh troops sent out from England to these waters The Alhes, in view of the coming of reinforcements, treated July as a month of preparation, although a general attack was delivered by them in the Helles area by which a little ground was gamed. A few days later the first of the reinforcing divisions, the 13th, arrived and was landed at Helles as a temporary measure

II. SARI BAIR AND SUVLA BAY

How to employ the fresh divisions coming out from home had to be decided by Hamilton The French had from the outset favoured operations on the further side of the straits, and there was something to be said for such a plan of campaign. But a descent in that quarter must involve a disembarkation in face of opposition, the perils of which had been made apparent on April 25, moreover, granting the landing to be successful, the forces would start work much farther from the narrows of the Dardanelles, the objective, than were either Helies or Anzac There were also not wanting inducements for the Allies to attempt a landing at Bulair, seeing that their presence at that point would carry with it the severance of the Turkish land communications with the peninsula But this would likewise mean a landing in face of opposition, and the distance of Bulair from the Island of Imbros, the nearest base of operations for the peninsula, provided a strong argument, from the point of view of ship transport, against such an undertaking Moreover, a landing either on the Asiatic side or at Bulair meant a dispersion of the Allies' forces as a whole, unless Helles or Anzac, or both of them, were to be abandoned; and the fact that the Ottoman commander-inchief had to be prepared for his opponent adopting one of these two plans, offered a strong argument against selecting either of them, apart from any other considerations as to their tactical advantages or disadvantages.

British Plans.-Hamilton decided that his great effort should , as a result of the operations he muds as and immediately north at. Areac. The rugged bluffs [un waith Birdwood's men had taken root since April were spars o. a tangled mauntain mass known as Sari Bair from the topmost raiges of which the nirrows were usable four or five miles off, A the was moreover submed almost at the narrowest point of ; the premise. The plac was to reinforce Bardwood secretly by a division and a half otherists and part of the roth; and that, thus structioned he should secure possession of San Bur by a night attack. A turther force the rith Div and the rest of the 10th) was on that same night to effect a landing at an entirely new to at-Sura hay-a law miles north of Anzac, where the Turks were known to be few. This force was to assist the troops attacking San Bair in due course and the possession of Savla cay would furnish roops ashore in and about this area with a much more sheltered lending place than the beaches about Anzac onered. The last divisions to arrive the 53rd and 54th, were to the employed wherever should seem best after the offensive had regues to land the whole of the reinforcements simultaneously would not have been practicable with the amount of water transnort available.

The atmost sucrecy was observed by the Allies' staff. Steps were taken to mislead the Ottoman authorities by means of feints and of reconnaissances executed at localities other than those selected for operations. False reports were circulated assiduously by the intelligence department. Liman von Sanders was well aware of the arrival of large bodies of British troops in the islands; out he remained in complete ignorance of his rival's real design until this was accusely in course of execution. He had orgranzed his forces as a southern group watching Anzac, while two divisions were retained near Bulair, where he was disposed to anticipate that the blow would fall. There were also large codies of Turkish troops in reserve about Chanaq, and others about Kum Kale and Besika bay. Numerically the contending annies at this vitical juncture were about equal, but the Turks were necessarily much dispersed, so that the result of the impending clash of arms really hinged upon the speed with which the arracking side should gain ground before the defenders had tune to concentrate.

The Arlies' offensive started on Aug. 6 with two preliminary enterprises. An onser was made upon part of the Turkish lines en the Helles area. Pertions of Birdwood's force broke out of the southern end of the Anzac position and gained ground. But the real purpose of the two operations was to occupy the enemy's attention and to conceal a design of much greater moment

Attack on Sari Bair .- So devterously had the assembling of the reinforcements in the Anzar area been effected that the Turks were entirely unaware that Birdwood's army had been nearly quebled. The plan for gaining possession of the Seri Bair mountain was that several columns were to move out from the northern end of the Anasc position at nightfall on Aug. 6 and, on reaching their appointed stations, were to wheel to the right and to work their way in the dark up certain steep but well-defined gullies that led up to the summit But although the Turks were to some extent surprised and although the outlets of the gullies were in consequence in the assailants' hands by midnight, so step-born a resistance was offered by the defenders that by daybreak the columns were not much more than half way up, and all attempts to win the upper ridges failed on the 7th in the face of the Turkish reinforcements.

After a rearrangement of the troops during the night the offensive was resumed on Aud. B; but except at one point very hithe progress was made. After a fresh reorganization during the cark hours another effort was made in the " " " in this oc-Ay fought and the property of the first transfer of the furks, now there were no permitting the first than ..- "pposed to the charges are it is the interior of the Angel to be a final ever mental components of the contraction

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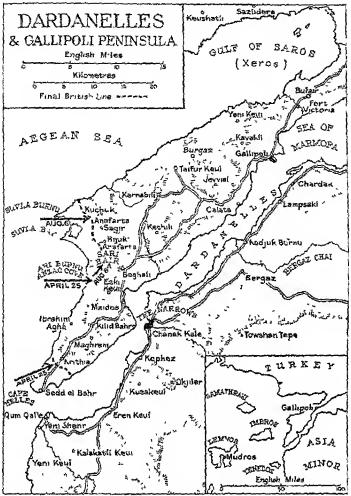
Landing at Suvia Bay.-Stirring events had in the meantime been taking place around Suvia bay. The troops detailed for the landing in this quarter belonged to the British "New Army", they were not conversant with active service conditions, and they were being highly tried in being called upon to execute a landing in force at night in face of opposition. There was indeed no precedent for an undertaking of this kind under modern tactical Londitions, but the Turks were known not to be in sufficient strength to offer serious resistance. As it was the whole of the 11th Div. was ashore before dawn, but the urgent need of pressing forward at once was not realized by the local commanders, and some confusion arose when the 10th Div arrived and began to disembark. No organized advance in force took place until late in the atternoon, and at nightfall the attacking force had only reached the foot of the hills lying to the east of the landing places and captured one advanced spur. The troops had suffered greatly from thirst, the arrangements with regard to water having practically broken down, mainly owing to the inexperience of the troops themselves

Attack in the Hills.-When Liman von Sanders learned during the night of Aug 6-7 that the Allies were landing in force at Suvia and were attacking Sari Bair from Anzac, he ordered the two divisions at Bulair to proceed to Suvla with all speed. But this meant a two days' march along indifferent roads Consequently there was still on Aug 8 a great opening left for the attacking side to complete the first part of its programme, se, to gain possession of the heights to the east of Suvia which dominated the landing places and a considerable area of level ground around Suvla bay. But no organized move took place The opportunity was allowed to slip by, and that night Turkish reinforcements began to arrive from Bulair and to occupy the allimportant high ground Next morning the 10th and 11th Divs, supported in a measure by the 53rd Div, which had arrived during the night, advanced to the attack. But the effort failed, and when it was renewed on the following day the Turks had been so effectually reinforced that the offensive enjoyed little chance of achieving success. That day, Aug 9, was the last on which there remained any hope either of the Sari Bair offensive achieving success or of the Suvla force establishing itself in a satisfactory position. This force, however, made a fresh attempt on the 10th to wrest the heights in front of it out of Osmanli keeping, but this failed completely, and further offensives in this quarter were abandoned for the time being

Hamilton's carefully devised scheme of offensive operations had in fact come to nought in its most important features. The determined effort to secure possession of San Bair had miscarried A footing had, it is true, been gained at Suvla, giving the Allies control of a fairly well sheltered inlet on the outer coast of the pennsula, but as the high ground within easy artillery range of the landing places, which overlooked the whole occupied area, remained in the hands of the Turks, much of the benefit hoped for from its acquisition was neutralized. Only a restricted patch of Ottoman territory had in fact been occupied, thanks to the new undertaking, and although the position at Anzac had been extended and improved it remained a very bad one The Allies now occupied many miles of front in the peninsula, but there was scarcely a spot where the enemy did not enjoy the advantage in respect to ground, what the attacking forces needed from the outset was depth rather than breadth, and depth they had failed to secure They had, moreover, incurred very heavy losses during the succession of combats lasting from Aug. 6 to 10, and, except for a mounted division coming from Egypt to fight on foot, no reinforcements were on the way; the 54th Div. had already been swallowed up at Suvla The defending side had also, no doubt, suffered heavily in casualties, notably on Sari Bair; but Liman von Sanders could fairly claim that, even if some valuable ground had been lost by the Turks, he had held his own in a contest in which his adversary had enjoyed the initiative and had been in a position to effect a sur-

An effort was made by the troops on the extreme left of the

Allies' position at Savla to gain ground along the ridge north of , theatre A temporary change or plan did occur a few days later however, did not despair of improving the situation in this area, so the mounted division from Egypt and another division from Helles were quietly concentrated there in support of the troops already on the spot, and on the list a determined arrempt was made to capture some of the high ground which had baffled the



THE THREE THEATRES OF WAR ON THE GALLIPOLI PENINSULA HELLES, ANZAC BEACH, AND SUVLA BAY

attempts of the invaders on the 9th and 10th. Large forces were engaged on either side in this battle, and the attack was prepared by a heavy bombardment of the Ottoman trenches, in which warships moored in Suvla bay, where they were secure from submarines, participated But after a sanguinary encounter the assailants met with a decisive rebuff, and from that date onwards no serious offensive operation was attempted by the Allies in the Dardanelles campaign. The conditions of stalemate which had prevailed before the arrival of the five new divisions from England set in afresh and continued to the end

As a consequence of the failure at Suvla during the early days of its occupation certain changes in command were carried out, Cen Byng, especially sent out from home for the purpose, taking over command in this area. Gen Davies was in command at Helles, and, as the right of the Suvla force was in touch with the left of the Anzac force in the low ground near the shore, Byng and Birdwood now held a continuous front extending from a point on the coast about 3m NE. of Suvla bay near to Gaba Tepe, overlooked for practically the whole of its length by high ground in occupation of the Turks. Owing to the losses that had been suffered during the August combat and even before the final reverse of Aug 21, Hamilton had cabled home asking for reinforcements and for the very large drafts needed to be a bis depleted units up to their war establishment, amour un in a

the Suvia plain on Aug 15, but nothing came of it Hamilton, owing to a French proposal to despatch four divisions to the scene to operate on the Asiatic side of the straits, whereupon the British Government became disposed also to send fresh divisions

III. EVENIS IN THE BALKANS AND EVACUATION

These projects were dropped early in September, owing very largety to the threatening aspect of affairs in the Balkans (See SALONTEA CAMPAIGNS SCRETAN CAMPAIGNS)

The campaign by which the Central Powers and Bulgaria overwhelmed the Serbians for the time being, and by which direct comrumications were opened through Bulgaria between Austria-Hungary and the Ottoman empire, profoundly influenced the situation in the Gallipoli perinsula to the disadventage of the Allies Not only was all idea of reinforcing the Allied army that was planted in this region abandoned, but some of Hamilton's troops had before long been transferred to Salontka. The linking up of Turkey with the Central Powers by railway, moreover, connoted that Liman von Sanders would speedily be furnished with ample munitions of all kinds, which would make the prospect of Anglo-French forces gaining possession of the straits remoter than ever

Withdrawal Discussed .- By the middle of September the Paris Government had come to the conclusion that there was now no hope of victory in the Dardanelles theatre; but the British cabinet, influenced by anxiety as regards prestige in the East and by disinclination to abandon an enterprise in which great sacrifices had been incurred and from which much had at one time been expected, could not make up its mind to cut losses and to withdraw On Hamilton being asked to give his views concerning the question of evacuation, he pronounced himself as emphatically opposed to such a step, so Sir C Monro was sent out from England to take his place. The new commander-in-chief, impressed by the very unsatisfactory positions occupied by the Allied troops, by the impossibility of their making any progress at their existing strength, and by the risks that the army ran by clinging to such a shore without any safe harbour to depend upon for base in stormy weather, declared unbesitatingly in the closing days of October for a complete withdrawal after examining the situation on the spot and consulting with Birdwood, Byng and Davies.

The British cabinet would not accept the recommendation, and sent Lord Kitchener to investigate and report. He had viewed proposals to abandon the campaign with alarm; but after visiting the peninsula he realized that evacuation was the only justifiable course, and reported to that effect. All this time winter was drawing nearer and the need for a prompt decision was becoming more and more urgent, but the authorities in London lost another fortnight before, on Dec. 8, they at last sent instructions to Monro to withdraw from Suvla and Anzac, while retaining

Evacuation of Suvla Bay and Anzac.-Anticipating orders to this effect, Monro had already made certain preparations for evacuation, and, as he was also responsible for the British forces at Salonika, had placed Birdwood in command, Gen. Godley relieving Birdwood at Anzac It was recognized that the withdrawal of the vast accumulation of stores about the beaches, and also of the bulk of the actual troops must be carried out gradually on successive nights, and this process was at once set on foot both at Suvla and at Anzac The decision come to as to the final stage of the operation was that the front trenches should be held up to the last on the night of definite evacuation, and that the troops manning them should hasten straight to the beaches, everything removable having already been embarked; at a given moment the trenches (which at many points were but a few yards from those occupied by the Turks) would be vacated by detachments which by that hour would have shrunk to mere handfuls of men The final night was provisionally fixed as that of Dec. 18-19, and, "I rak: to " weather and to the efficiency of the arrange-" [] cal undertaking was carried out with triumtotal of 95,000 men. He had however been informed the majoritation of the had been laid down by programme ten days large bodies of fresh to or a state of the landing places were scenes of

time reners took place as usual precences were made or landing stones and ammais, and the result was that the Turks remained ri complete ignorable of what viss passing close to their lines On Due 18 only a meagre force composed aimost enorely of in entry and disposed asmost entirely in the front trenches, was hading a front of form, face to face with an enemy incomparably stranger in numburs

At hightful the very new guns not yet withdrawn were burried of the jettles, ther the troops along the front were quetly was adrawn by successive detachments, finally the parties sall in the trenches supped away, and when dawn broke the Turks discovered that the invaders were gone. Practically nothing worth | mentioning had been left behind at Suvla and at Anzac, where conditions were more difficult, only a very few worm-out guns had to be abandoned and some valuable war material destroyed. The relaxing by the Allies of their frail hold upon a strip of the omer coast-line of the Gallipoli peninsula had been effected more successfully than the most sarguine amongst them had permitted themselves to hope.

Yet for a week subsequent to the good news reaching them, the British Government remained arresolute with regard to the policy to be pursued at Helles Then however, Monro received the expected sanction for evacuating that area likewise, and Burda god promptly grappled with this fresh problem, a problem rendered more difficult than the last owing to Liman von Sanders baving full warning of what might be expected and, moreover, now enjoying an enormous preponderance in force. He bad 21 ministons available, while there were only four left to oppose him

Evacuation of Cape Helles.-The same principles as had been adopted by Byng and Godley at Suvla and Anzac were put ! in practice at Helies, the withdrawal of stores, war material animals and personnel being carried out on successive nights While the from trenches were to be held up to the last, the fighting force ashore was to be gradually reduced and the detachments holding the front trenches were at the given hour on the last night fixed provisionally for that of Jan 8-9, to vacate them and hurry straight off to the beacnes. But the weather was none too favourable on several of the presiminary nights, and the enemy's guns save a good deal of trouble on the beathes, causing many casualties. The Turks were aware that a withdrawal was gradually being carried out, but they could not tell which would be the final night, nor could they make sure how far the number of combatants within the British knes had been reduced. So, with the intention of ascertaining the strength of their opponents, on Jan 7 they delivered a half-hearted attack upon the left of the British position. This was beaten off, and they came to the mistaken conclusion that the final evacuation was not imminent.

Shortly after dark set in on the night of Jan 8-9 the wind rose ominously. Nevertheless the guns remaining to be embarked were got off, the infantry followed, and the last detachments quitted the front trenches at 11 45 PM, without the Turks noting their departure. But when they reached the shore it was found, in the case of those detailed for Gully Beach, that embarkation there was impracticable, so these had to march to "W" Beach and they were not aften till after 4 A.M., only being got off with great difficulty owing to the surf. Several worn-out guns had been intentionally left behind, besides much ordnance material and foodstuft, but practically all of this was rendered unserviceable, for just as the last boats were lowered off, the masses of stores were set on fire, and only then did the Turks discover that their opposents had evaded them a second time. The withdrawal from Heiles had been a mesterly military and naval achievement.

IV. CONCLUSIONS

Most authorities on war agree that the failure of the Allies in this measurable campaign was primarily due to the abortive naval; effort to force the Dardanelles. This gave the Turk such warning at what was in stars that when Hamilton's army was ready to Fleschenberg, Daresstudien, 1908) the control with the position to bring it at once to a success after that lay in very sub-″.X

ancourage activity to war material food supplies animals and stantial reinforcements reaching the scene promptly. But neither tinging Lurge Dodies or troops, were got away During the day- the British nor the French would divert the requisite military resources from the main theatre of war at the moment and when some additional troops were sent later, their numbers were insufficient and it was too late

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> DARDANUS, in Greek legend, son of Zeus and the Plenad Electra mythical founder of Dardanus on the Hellespont and ancestor of the Dardans of the Troad and, through Aeneas, of the Romans. His original home was supposed to have been Arcadia Having slain his brother Iasius or Iasion (according to some legends, Iasius was struck by lightning), Dardanus fled across the sea. He first stopped at Samothrace, and, when the island was visited by a flood, crossed over to the Troad. Being hospitably received by Teucer, he married his daughter Batel and became the founder of the royal house of Troy

> See articles in Pauly-Wissowa's Realencyklopadic and Roscher's Lexikon der Mythologie

> DARDIC LANGUAGES, the name of a family of languages spoken immediately to the south of the Hindu Kush, and north of the frontier of British India, includes the group of Kafir languages spoken in Kafiristan, Khowar, spoken in the Chitral country, and the group of Shina languages, which includes the Shīnā of Gilgit, Kohistāni, spoken in the Kohistans of the Indus and Swat rivers, and Kashmiri Of all these Kashmiri is the only one which has received any literary cultivation. The Dardic languages are Aryan by origin, but are neither Iranian nor Indo-Aryan. They have developed phoneur peculiarities, and possess almost unaltered and in common use words which in India are seldom found except in Vedic Sanskrit. In each there is a small but unimportant element of Burushaskı (q v.)

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> DARDISTAN, a conventional name for a tract of country on the north-west frontier of India It comprises the whole of Chitral, Yasin, Panyal, the Gilgit valley, Hunza and Nagar, the Astor valley, the Indus valley from Bunji to Batera, the Kohistan-Malazai, ie., the upper reaches of the Panjkora river, and the Kohistan of Swat. The so-called Dard races are referred to by Pliny and Ptolemy, and are supposed to be a people of Aryan origin who ascended the Indus valley from the plains of the Punjab, reaching as far north as Chitral, where they dispossessed the Khos They have left their traces in the different dialects, Khoswar, Burishki and Shina, spoken in the Gilgit agency.

> DARES PHRYGIUS, according to Homer (Ilud, v. 9) a Trojan priest of Hephaestus He was supposed to have been the author of an account of the destruction of Troy, and to have lived before Homer (Aehan, Var Hist x1. 2) A work in Latin purporting to be a translation of this and entitled Daretts Phrygu de excidio Troine historia, was much read in the middle ages and was then ascribed to Cornelius Nepos; but the language is corrupt, and the work belongs to a period much later than the time of Nepos (probably the 5th century AD.) It is doubtful whether the work as we have it is an sbridgment of a Latin work or an adaptation of a Greek original. Together with the similar work of Dictys Cretensis (with which it is generally printed) the De excidia forms the chief source for the numerous middle age accounts of the Trojan legend (See Dictys, and O S von

> DAR-ES-SALAAM, a of East Africa, in 6° 50 S 39° o' E capital of Tangahyika Territory Pop (192) about

5 000 including some 600 Europeans and 1 00 As at s. The salt n amous places. Can ell and cattle are both numerous and harbour s small but perfe ty sheltered (henc s name) en rance to is through a narrow opening in the palm-covered shore The depth of water at the entrance is from 20 to 34 ft according to the tides Since 1927 a wharf 300 ft long has been made where ships can berth A railway (built 1905-1914), starting from the harbour goes via Tabora to Kigoma-Unii on Lake Tanganyika, a distance of 772 miles

In 1852 Sayyed Majid, sultan of Zanzibar, decided to build a town on the shores of the bay, and began the erection of a palace, which was never finished. In 1871 Majid died, and his scheme was abandoned. In 1876 the construction of a road from the harbour to Victoria Nyanza was begun. The project fulled, but in 1938 the port came into railway connection with Victoria Nyanza by the completion of the Tabora-Mwanza line In 1887 Cari Peters occupied the bay for the German East Africa Company and in 1891 Dar-es-Salaam was made the administrative centre for German East Africa A town was laid out on an ambitious scale, and it has fine buildings and a good botanical garden, the native guarter is distinct from that of the Europeans Dar-es-Salaam was occupied by the British forces in 1916, the wireless station was destroyed in 1914

DARESTE DE LA CHAVANNE, CLEOPHAS (1820-1832). French historian, was born in Paris Educated at the École des Chartes, he became professor in the faculty of letters at Grenoble in 1844, and in 1849 at Lyons, where he remained nearly 30 years His works comprise. Histoire de l'administration en France depuis Phinppe-Auguste (2 vols , 1848), and a Histoire de France (8 vols, 1865-73) completed by a Histoire de la Restauration (2 vols, 1880), and by a Histoire du Gouvernement de Juillet, a dry enumeration of dates and facts. Before the publication of Lavisse's great work, Dareste's general history of France was the best of its kind

DARFUR, a semi-independent kingdom of east central Africa, the westernmost province of the Anglo-Egyptian Sudan It extends from about 10° N to 16° N and from 21° E to 27° 30' E, has an area of some 150,000 sq m, and an estimated population of 750,000. It is bounded north by the Libyan desert, west by Wadai (French Congo), south by the Bahr-el-Ghazal and east hy Kordofan. The two last-named districts are mudicias (provinces) of the Anglo-Egyptian Sudan. The greater part of the country is a plateau from 2,000 to 3 000 ft above sea-level. A range of mountains of volcanic origin, the Jebel Marra, runs north and south about the line of the 24° E, and forms the watershed between the basins of the Nile and Lake Chad. About 100 m long and 80 m thick, its highest points attain from 5,000 to 6,000 ft. Eastward the mountains fall gradually into sandy, bushcovered steppes. North-east of Jehel Marra lies the Jebel Medob (3,500 ft high), a range much distorted by volcanic action, and Bir-el-Melh, an extinct volcano with a crater 150 ft. deep. South of Jebel Marra are the plains of Dar Dima and Dar Uma; southwest of the Marra the plain is 4,000 ft above the sea. The mountains are scored by numerous khors, whose lower courses across the tableland represent the beds of former rivers, now dry except when scoured by torrents in the rainy season. In the west and south water can always be obtained in the dry season by digging 5 or 6 ft. below the surface of the khors

The chmate, except in the south, where the rains are heavy and the soil is a damp clay, is healthy except after the rams. The rainy season lasts for three months, from the middle of June to the middle of September In the neighbourhood of the khors the vegetation is fairly rich. The chief trees are the acacias whence gum is obtained, and baobab (Adansonia digitate), while the sycamore and, in the Marra mountains, the Euphorbia candelabrum are also found. In the southwest are densely forested regions Cotton and tobacco are indigenous. The most fertile land is found on the slopes of the mountains, where wheat, durra, dukhn (a kind of millet and the staple food of the people) and other grains are grown Other products are sesame, cotton, cucumbers, water-melons and onions

Copper is obtained from Hofrat-el-Nahas in the south-east,

of excellent breeds. Horses are comparatively rare, they are a small but sturdy breed. Sheep and goats are numerous. The ostrich common in the eastern steppes, is bred by various Arab tribes, its feathers forming a valuable article of trade.

Inhabitants.—The population of Darfur consists of negroes and Arabs The negro For, forming quite half the inhabitarits, occupy the central highlands and part of the Dar Dima and Dar Uma districts, they speak a special language, and are subdivided into numerous tribes, of which the most influential are the Masabat, the Kunjara and the Kera. The Massalit are a negro tribe which, breaking off from the For some centuries back, have now much Arab blood, and speak Arabic, while the Tunjur are an Arab tribe which have incorporated a large For element and no longer protess Mohammedanism The Dago (Tago) formerly inhabited Jebel Marra but they have been driven to the south and west, where they maintain a certain independence in Dar Sula Genune Arab tribes eg, the Boggoro and Homr, are numerous, and they are partly nomadic and partly settled The Arabs have not generally speaking mixed with the negro tribes They are great hunters, making expeditions into the desert for five or six days at a time in search of ostriches.

Slaves, ostrich feathers gum and ivory used to be the chief articles of trade, a caravan going annually by the Arbain ("Forty Pays") road to Assiut in Egypt and taking back cloth, fire-arms and other articles. The slave trade has ceased, but feathers, gim and every still constitute the chief exports of the country. The principal imports are cotton goods, sugar and tea. There is also an active trade in camels and cattle.

The internal administration of the country is in the hands of the sultan, who is officially recognized as the agent of the Sudan government

The capital and residence of the suitan is El-Fasher (pop about 10,000), on the western bank of the Wad: Tendelty. There are a few fine buildings, but the town consists mainly of tukls and boxshaped straw sheds. It is 500 m. W.S.W. of Khartum. Dara, a small market town, is 110 m S of El-Fasher Shakka is in the SE of the country near the Bahr-el-Homr, and was formerly the headquarters of the slave dealers

History -The Dago or Tago negroes, mhabitants of Jebel Marra, appear to have been the dominant race in Darfur m the earliest period to which the history of the country goes back How long they ruled is uncertain, little being known of them save a list of kings. According to tradition the Tago dynasty was displaced and Mohammedanism introduced, about the 14th century, by Tunjur Arabs, who reached Darfur by way of Bornu and Wadai. The first Tunjur king was Ahmed-el-Makur, who married the daughter of the last Tago monarch. His great-grandson, the sultan Dali, a celebrated figure in Darfur histories, was on his mother's side a For, and thus was effected a union between the negro and Arab races Dah divided the country into provinces. and established a penal code which, under the title of Kitab Dali or Dali's Book, is still preserved, and shows principles essentially different from those of the Koran. His grandson Soleiman (usually distinguished by the Forian epithet Solon, the Arab or the Red) reigned from 1596 to 1637, and was a great warmer and a devoted Mohammedan Soleiman's grandson, Ahmed Bahr (1682-1732), made Islam the religion of the State and increased the prosperity of the country by encouraging immigration from Bornu and Bagirmi. His rule extended east of the Nile as far as the banks of the Atbara. Under succeeding monarchs the country involved in wars with Sennar and Wadai, declined in importance.

In 1799 Abd-er-Rahman the then reigning sultan, wrote to congratulate General Bonaporte on his defeat of the Mamelukes in Egypt. To this Bonaparte replied by asking the sultan to send him by the next caravan 2,000 black slaves upwards of 16 years old, strong and vigorous. To Abd-er-Rahman likewise is due the present situation of the Fasher, or royal township. The capital had formerly been at a place called Kobbé Mohammed-el-Fadhl. his son, whose reign lasted till 1839, devoted himself largely to the subjection of the semi-independent Arab tribes who lived in uron is wrought in the south-west; and there are deposits of rock- i the country. In 1821 he lost the province of Kordofan o the

shared the Bahr-el-Ghard, looker upon by the Darfurians as their p a-rolla, Shave present. The negroes of Bahr-el-Ghazal paid induce of plany and slaves to Durfur and these were the chief I abjects of mer handse sold by the Darfurians to the Egyptian traders a one the Arbain road to Assiat. Hassin died in 1873 blind and accurated in years, and the succession passed to his youngest sor Ibrazim who soon found himself engaged in a conflict with Amen is: the that of the Bahr-al-Geazal slave traders and a to in Egoptim force from Kharioum. The war resulted in the destruction of the kingdom. Ibrahim was sain in battle in the mittann of 1874 and he uncle Hassab Alla, who sought to maintail. he independence of his country, was captured in 1873 by the troops of the khedive, and removed to Cairo with his family The Durfurians were restive under Egyptian rule. Various revolts were suppressed, and in 1881 Slatin Bey (Sir Rudolf von Slatin; was made governor of the province. Slatin defended the province against the forces of the Mahdi, but was obliged to semender (Dec 1883), and Dartur was incorporated in the Mahdis dominions Fellowing the overthrow of the khalifa at | Omduman in 1898 the new (Anglo-Egyptian) Sudan government recognized (1804) Ali Dinar a grandson of Mohammed-el-Fadhl as sultan of Darfer A rising attempted by Al. Dinar in 1915 necessitated a punitive expedition in which he was killed (Not 1915) and Dariur then became in effect a Sudan province.

The first European traveller known to have visited Darfur was William George Browne (q v.) who spent two years (1793-95) at Robbe. Gunar Nachtigal in 1873 spent some months in Darfur, and since that time the country has become well known through the journeys of Gordon, Slatin and others

BIBLIA TAPRIN —Browne's account of Darfur will be found in his Trively in Africa, Egypt and Swiis (1799), Nachtigal's Szhara und Swiin slives the results of that traveller's observations. The first ten chapters of Szatin Pasha's book Fire and Sword in the Sudan (English rintain, 1866) should be consulted. See also The Anglo-Egyptian Sadan (1903), edited by Lord Edward Gleicher, and the hibl, under Sudan.

DARGAI. (1) Mountain ridge of the Samana range, on the Kohat border, famous for the stand made there by the Afridis and Orakzsis in the Tirah Campeign 1897 (See Tirah Campaign) (2) The terminus, on the Peshawar border, of the frontier railway running from Nowshera to the foot of the Malekand pass.

Attack on Dargai (1897).—During the British advance through Tirah in 1897 two attacks were made on the Dargai ridge, the first on Oct 18 and the second on the 20th. The first failed; the second succeeded through British pluck in spite of its tactics being of the meanest order.

Dargai is a spur of the Samana range of hills which flanks the Kuram valley north of Thai, Shinawari and Hangu. It is clearly visible from near Fort Guhstan whence on the 20th, it was seen that the tribesmen were holding the ridge in strength, and were throwing up sangars (stone breastworks). Major-General Yeatman-Biggs decided to take the position by a frontal attack, and though he had 24 guns at his disposal no attempt was made to concentrate their fire on the tribesmen. The result was that the strack was brought to a standstill by a hall of bullets, and a second one had to be mounted. More wisdom was then displayed, the runs being ordered to bombard the position for three minutes prior to the assault. This bomberdment demoralized the tribesmen, and the position was carried The British losses were 37 officers and other maks killed, and 156 wounded. The bulk of these losses cruid have been avoided had it at first been realised that frontal ditacks must be presented by sup-five

The Compagn

DARGOMIJSKY, ALEXANDER SERGELVICH

Egyptians Of all 40 sons the toird. Monammed Hassin was opera Esseralda was written in 1839, and his Roussalka was perametally and the successor in the later part of his reign Hassin i formed in 1856, but he had small success or recognition either operate layouted in 17 the with the Arab slave tailers who had at home or abroad, except in Belgium, till the '60s, when he became the Bahr-el-Ghard, looker upon by the Darfurians as their came one of Balakirev's circle. His opera The Stone Guest then became famous among the progressive Russian school, though it was not performed till 1872. Dargomijsky died at St. Petersburg there is not the Legiptian of one in the Arabaia road to Assist Hissin died in 1873, blind of songs and some orchestral pieces.

DARGU: see NUBA

DARIAL, a gorge in the Caucasus, on the east of Mt Kasbek, pierced by the inver Terek for 8 m between vertical walls of rock (5,900 ft). It is mentioned in the Georgian annals, by Strabo and by Ptolemy. Being the only available passage across the Caucasus, it has been fortified at least since 150 BC. In Russian poetry it has been immortanzed by Lermontov. The present Russian fort, Darial, which guards this section of the Georgian military road, is at the northern issue of the gorge, at an altitude of 4,746 feet.

DARIEN, a district covering the eastern part of the isthmus toming Central and South America. It is mainly within the republic of Panama and gives its name to a gulf of the Caribbean Sea Darien is of great interest in the history of geographical discovery. It was reconnoured in the first year of the 16th century by Rodrigo Bastidas of Seville, and the first settlement was Santa Maria la Antigua, situated on the small Danien river, north-west of the mouth of the Atrato. In 1513 Vasco Nuñez de Balboa stood "silent upon a peak in Darien" and saw the Pacific at his feet stretching inland in the Gulf of San Miguel, and for long this narrow neck of land seemed alternately to profier and refuse a means of transit between the two oceans. The first serious attempt to turn the isthmus to permanent account as a trade route dates from the beginning of the 18th century, and forms an interesting chapter in Scottish history. In 1695 an act was passed by the Scottish parliament giving extensive powers to a company trading to Africa and the Indies, and this company, under the advice of one of the most remarkable economists of the period William Paterson (qv), determined to establish a colony on the isthmus of Darien midway between Porto Bello and Cartagena, two of Spain's strongholds, and to gain a free trade route to the Pacific "whereby to Britain would be secured the key to the universe, enabling their possessors to give laws to both oceans and to become the arbiters of a commercial world." On July 26, 1698 the pioneers set sail from Leith amid the cheers of an almost envious multitude; and on Nov. 4, with the loss of only 15 out of 1,200 men, they arrived at Danen, and took up their quarters in a well-defended spot, with a good harbour and excellent outlook. The country they named New Caledonia, and two sites selected for future cities were designated respectively New Edinburgh and New St Andrews At first all seemed to go well; but by and by lack of provisions, sickness and anarchy reduced the settlers to the most miserable plight, and in June 1699 they re-embarked in three vessels, a weak and hopeless company Meanwhile a supplementary expedition had been prepared in Scotland; two vessels were despatched in May, and four others followed in August But this venture proved even more unfortunate than the former. The last addition to the settlement was the company of Capt Alexander Campbell of Fonab, who arrived only to learn that a Spanish force of 1,500 or 1,600 men lay encamped at Tubacanti on the river Santa Maria, waiting for the appearance of a Spanish squadron in order to make a combined attack on the fort. Campbell was at first successful in a surprise attack but after the arrival of the Spanish fleet the garrison was forced to capitulate, and Darien colony was no more Of those who had taken part in the enterprise only a miserable handful ever reached their native land

See J. S. Barbour, A. History of William Paterson and the Darien Company (1907); A. H. Varrill, Panama, Past and Present (19) E. Cullen, Isthmus of Darien Ship Canel etc. (2d. ed. 183) J. Burton The Daries Papers (1849, and t. P. Inch. Papers is the Ships and Voyagas of the Company of Scotland Trading to Africa and the Indies (9)

his Prosas p ofanas (1899) he revealed h mseli a symbolist hen throwing off every trammel ardent in the pur u t of all that was rare and new and beaut ful he astonished the Spanish speaking world by his Canto a la Argentina y otros Poemas (1900), Cantos de Vida y Esperanza (1905), and Canto errante (1907) Heedless of rules and schools, Dario followed his own path, trying the boldest innovations, especially in metre. His experiments were not always successful, nor did he succeed in founding a school, but he has left his mark on Castilian verse, infusing into it new life and enlarging its traditional forms. He writes a nervous prose in such works as Los Raros (1893), Tierras solares (1904) and Todo al Vuelo (1912)

DARIUS, the name of three Persian kings (Pers. Darayavaush, Old Test Daryavesh)

I DARIUS THE GREAT, the son of Hystaspes (q v) The principal source for his history is his own inscriptions, especially the great inscription of Behistun (q v.), in which he relates how he gained the crown and put down the rebellions. In modern times his veracity has often been doubted, but without any sufficient reason; the whole tenor of his words shows that we can rely upon his account. The accounts given by Herodotus and Ctesias of his accession are in many points evidently dependent on this official version with many legendary stories interwoven, e g, that Darius and his allies left the question as to which of them should become king to the decision of their horses, and that Darius won the crown by a trick of his groom

Damus belonged to a younger branch of the royal family of the Achaemenidae When, after the suicide of Cambyses (March 521), the usurper Gaumata ruled undisturbed over the whole empire under the name of Bardiya (Smerdis), son of Cyrus, and no one dared to gainsay him, Darius, "with the help of Ahuramazda," attempted to regain the kingdom for the royal race. His father Hystaspes was then alive but evidently had not the courage to urge his claims Assisted by six noble Persians, whose names he proclaims at the end of the Behistun inscription, he surprised and killed the usurper in a Median fortress (Oct 521; for the chronology of these times cf. E Meyer, Forschungen zur aiten Geschichte, 11 472 ff), and gained the crown But this sudden change was the signal for an attempt on the part of all the eastern provinces to regain their independence. In Susiana, Babylon, Media, Sagartia, Margiana, usurpers arose, pretending to be of the old toyal race, and gathered large armies around them, in Persia itself Vahyazdata imitated the example of Gaumata and was acknowledged by the majority of the people as the true Bardiya Darius, with only a small army of Persians and Medes and some trustworthy generals overcame all difficulties, and in 520 and 519 all the rebellions were put down (Babylon rebelled twice, Susiana even three times), and the authority of Darius was established throughout the empire.

Darius in his inscriptions appears as a fervent believer in the true religion of Zoroaster. But he was also a great statesman and organizer The time of conquests had come to an end, the wars which Darius undertook, like those of Augustus, only served the purpose of gaining strong natural frontiers for the empire and keeping down the barbarous tribes on its borders. Thus Danus subjugated the wild nations of the Pontic and Armenian mountains and extended the Persian dominion to the Caucasus, for the same reasons he fought against the Sacae and other Turanian tribes. But by the organization which he gave to the empire he became the true successor of the great Cyrus His organization of the provinces and the fixing of the tributes are described by Herodotus m 90 ff., evidently from good official sources He fixed the coinage and introduced the gold coinage of the Daric (which is not named after him, as the Greeks beheved, but derived from a Persian word meaning "gold"; in Middle Persian it is called zarig). He tried to develop the commerce of the empire and sent an expedition down the Kabul and the Indus, led by the Carran captain Scylax of Caryanda, who explored the Indian Ocean from the mouth of the Indus to Suez He dug a canal from the Nile to Suez, and, as the fragments of a hieroglyphic inscription found there show, his ships sailed from the Nile through the Red Sea by Saba to Persia. He had connections with Carthage (i.e., the Karka of the Nakshi Rustam inscr), and explored the shores of Sicily and Italy. At

the same time he a tempted to gain the good wall of the jubject nat ons and for this purpose promo ed the aims of their pries s He allowed the Je s to bu d the Temple o Jerusa em In Egypt his name appears on the temples which he built in Memphis, Editu, and the Great Oasis He called the high-priest of Sais Uzahor, to Susa (as we learn from his inscription in the Vatican), and gave him full powers to reorganize the "house of life," the great medical school of the temple of Sais In the Egyptian traditions he is con sidered as one of the great benefactors and lawgivers of the country (Herod ii 110 Diod i 95) He stood in similar relations to the Greek sanctuaries (cf his rescript to "his slave" Godatas, the inspector of a royal park near Magnesia, on the Maeander in which he grants freedom of taxes and torced labour to the sacred termtory of Apollo See Cousin and Deschamps, Bulletin de corresp hellen, viii (1889), 529 and Dittenberger, Sylloge inser grace, 2), all the Greek oracles in Asia Minor therefore stood on the side of Persia in the Persian wars and admonished the Greeks to attempt no resistance. Even Delphi was not entirely free from the taint of Medism

About 512 Darius undertook a war against the Scythians A great army crossed the Bosporus, subjugated eastern Thrace, and crossed the Danube The purpose of this war can only have been to attack the nomadic Turanian tribes in the rear and thus to secure peace on the northern frontier of the empire. It was based upon a wrong geographical conception, even Alexander and his Macedonians believed that on the Hindu Kush (which they called Caucasus) and on the shores of the Jaxartes (which they called Tanais, ie, Don) they were quite near to the Black Sea. Of course the expedition undertaken on these grounds could not but prove a failure; having advanced for some weeks into the Russian steppes, Darius was forced to return The details given by Herodotus (according to him Darius had reached the Volgat) are quite fantastical; and the account which Danus himself had given on a tablet, which was added to his great inscription in Behistun, is destroyed with the exception of a few words (See R W Macan Herodotus, vol ii appendix 3, G. B. Grundy, Great Persian War, pp 48-64, J B. Bury in Classical Review, July 1897)

Although European Greece was intimately connected with the coasts of Asia Minor, and the opposing parties in the Greek towns were continually soliciting his intervention, Darius did not meddle with their affairs. The Persian wars were begun by the Greeks themselves The support which Athens and Eretria gave to the rebellious Ionians and Carians made an attempt to punish them inevitable as soon as the rebellion had been put down. But the first expedition that of Mardonius, failed on the cliffs of Mt Athos (492), and the army which was led into Attica by Datis in 400 was beaten at Marathon Before Darius had finished his preparations for a third expedition an insurrection broke out in Egypt (486). In the next year Darius died, probably in Oct. 485, after a reign of 36 years He was one of the greatest rulers the East has

2. DARIUS II, OCHUS Artaxerxes I, who died in the beginning of 424, was followed by his son Xerxes II But before two months had elapsed he was murdered by his brother Secydianus, or Sogdianus (the form of the name is uncertain). Against him rose a bastard brother, Ochus satrap of Hyrcania, who after a short fight killed him and suppressed by treachery the attempt of his own brother Arsites to imitate his example (Ctesias ap Phot. 44, Diod xii 71, 108, Pausan vi 5, 7) Ochus adopted the name Darius (in the chronicles called Nothos, the bastard). Neither Xerxes II. nor Secydianus occurs in the dates of the numerous Babyloman tablets from Nippur, here the dates of Darius II follow immediately on those of Artaxerxes I Of Darius II's reign we know very little (a rebellion of the Medes in 400 is mentioned in Xenophon. Rellen 1 2 19), except that he was quite dependent on his wife Parysetis. In the excerpts from Ctesias some harem intrigues are recorded, in which he played a disreputable part. As long as the power of Athens remained intact he did not meddle in Greek affairs, even the support which the Athenians in 413 gave to the rebel Amorges in Caria would not have roused him (Andoc. iii- 29; Thuc. viii. 28, 54; Ctesias wrongly names his father Pissuthnes in his stead; an account of these wars is contained in

the se

be great Lyctum stelle from Nonthus in the British Museum), had i not the Athenian payor broken down in the same year before over the He give strikers to his surraps in Asia Minor, Tissaphera sund Frimaliazus to send in the overdue tribute of the Greek towns and a bagin our water Athens, for this purpose they entered 17 a 12 alliance with Sparia. In 408 he sent his son Cyrus to Asia Mirtir to carry on the war with greater energy. In 404 he died a sent roign of 19 years and was tollowed by Artanerses II

3 Danies III. Condmanners. The eurock Bagoas (q.s.) havig ir innered Archaertes III. in 3.3 and his son Arses in 336, , seed to the "home a distant relation of the royal house whose the naturally to Justin 1 3, was Codomannus, and who had existed in a worldgainst the Cadasians (of Diod xvii 5 ff , where ris tather is clied Arames son of Ostanes, a brother of Arametres. The new king who adopted the name of Darius, world the fine of his prodecessors and saved himself from it by forcing Baguas to drive the contents of the cup himself. In 336 Primp H of Macedon had sent an army into Asia Minor and in he spring of 374 the campaign of Alexander began. In the following year Danus homself took the neld against the Macedonian king out was beaten at Issus and in 331 at Arbela. In his flight to the east he was deposed and killed by Bessus (July 330).

The name D mus was also borne by many later dynasts of Persian ongin among them kings of Persis (q v), Damus of Media Atropatione who was defeated by Pompeius, and Darius, king of Fontus in the time of Antony

DARJEELING, a town and district of British India, in the Raishahi division of Bengal The tong is a hill station and the hot weather seadquarters of the Bengal Government. In 1921 it had a population of able§8. It occupies a long ridge with two projecting spurs, on which are the town proper and the cantonments of Katapahar, Jaiopanar and Lebong. The total area is nearly 5 sq ra., and the difference between its highest and lowest points is about 2 coo feet, Katapahar being 7 886 ft and Lebong 5 970 ft. above sea level. It enjoys a temperate chimate, the average maximum and minimum temperatures being only slightly above those of London, but it has a heavy rainfall, over 100 in falling from June to October, in these months it is often hidden m mist. On the other hand, snow rarely falls in the winter. Darseeling commands one of the most peautiful views in the world, for the eye goes up from the valleys to a succession of ranges

colminating in Kinchinjunga (28,146 ft), with snow-clad peaks on either side a glittering white wall of perpetual snow which nils a great part of the horizon. There are several schools, botanic gardens and sanatoriums for both Europeans and Indians The hindings and the roads suffered severely from landships in 1899, protective works have been built to prevent the recurrance of such a disaster.

The district of Darjeeling has an area of 1,164 sq.m , and a population of 282,748. It consists of two well-defined tracts, viz, the lower Humalayas, and the torai, or plains, at their base The plains from which the balls take their rise are only 300 ft. above sex-level; the mountains ascend abruptly in spurs of 6,000 to 12,000 ft in height. The scenery is picturesque, and in as colavesy of the canadian many parts magnificent. The two highest MCIFIC STRANSHIP CO mountains in the world. Kinchinjunga in DARJEELING Sikkon (28,146 ft), and Mt. Everest



DANCER

(29,002 it.), are visible from Mt. Sandakphu (11,929 ft.) on the Singuilla ridge. Other high points in the district are Phalut (11.811 ft.), Rishi-la (10,500). Tanghı (10,084) and (6 m. from Darjeeling) Sencial (8.163) and Tiger hill (8,515 ft.). The chief rivers are the Tista, Great Rapjil Mahananda and Balasan. Bears, leaguards and deers are found on the higher hills, and elephants and

tigare in the free was breez below. of the bills are Marie (10,710) of

Lepchas (9,669) In the taras the Bengah Rajbansis (originally Kochi predominate Over a third of the district is occupied by forests which cover the hills above 6 000 ft, and below 3,000 ft these being roughly the limits of cultivation of food crops and of tea. The cultivation of tea is the main industry. There were 168 tea gardens, with an output of 14 million lb in 1921 Cinchona cultivation was introduced by the Government in 1862, the factory at Mungpo is capable of manufacturing over 50,000 lb. of quinme annually The Darjeeling Himalayan railway of 2 ft gauge, connects the town of Darjeeling with the Eastern Bengal State railway at Siliguri, from which a branch line runs up the Tista valley to Kalimpong road

The British connection with Darjeeling dates from 1816, when, at the close of the war with Nepal, the British made over to the Sikkim rajah the tarai tract, which had been wrested from him and annexed by Nepal In 1835 the nucleus of the present district was created by a cession of a portion of the hills by the rajah of Sikkim to the British as a sanatorium. A military expedition against Sigkim, rendered necessary in 1850 by the imprisonment of Dr A Campbell, the superintendent of Darjeeling, and Sir Joseph Hooker, resulted in the annexation of the Sikkim tarai at the foot of the hills and of a portion of the hills beyond. The hill territory east of the Tista was acquired as the result of the Bhutan war of 1864, and now forms the Kalimpong sub-division

DARK AGES, a term formerly used to cover the whole period between the end of classical civilization and the revival of learning in the 15th century. The use of the term implied an exclusive respect for classical standards in literature and art and a corresponding disparagement of all that was achieved between the decline of ancient culture and the work of Renaissance scholars, writers and artists. With the progress of mediaeval studies in the 19th century it became impossible for historians to dismiss one of the great constructive periods in human activity with an epithet implying contempt for its achievements, and the phrase has now become obsolete It remains, nevertheless, the fact that the six centuries following the collapse of the Roman empire are in an especial sense dark through the insufficiency of historical evidence. Even so, it is necessary to remember that intellectual work of the highest quality was done by exceptional individuals in ages when life was insecure and its environment very discouraging to thought. The ages which form the prelude to mediaeval history are dark when compared with the time which followed them, but the foundations of mediaeval civilization were laid in these obscure and troubled centuries

DARLEY, GEORGE (1795-1846), Irish poet, was born in Dublin and educated at Trinity college He settled in London in 1822, where he contributed to The London Magazine, and became dramatic and art critic to the Athenaeum His best known works are a fairy opera. Sylvia (1827), and a poem "Nepenthe"

See the Selections from the Poems of George Darley, with an introduction by R A Streatfeild (1904), Claude Abbott, Life and Letters

of George Darley (1928)

DARLING, CHARLES JOHN, IST BARON (1849-English judge, was born on Dec. 6, 1849 At the age of 24 he was called to the bar, in 1885 he became a QC, and soon afterwards entered Parliament as Conservative member for Deptford He sat in the House of Commons from 1888 until 1897 when he was knighted His appointment in 1897 to a judgeship was not received with universal approval, but he later justified the choice by proving himself to be a man of acute understanding, with an unusual msight into human nature. In 1923 he retired, and in 1924 was granted a peerage Among his published works are Scintulae Juris (1877); Meditations in the Tea Room (1879), Seria Ludo (1903); On the Oxford Circust (1909), Musings on Murder, etc (1925). A Pensioner's Garden and other Verses (1926).

See Evelyn Graham, Lord Dorling and his Famous Trials (1929) DARLING, GRACE HORSLEY (1815-1842), British heroine, was born at Bamborough. Northumberland on Nov. 24, 1815. Her father Darling was the keeper of the Long stone (Farne Islands) lighthouse. On the morning of Sept. 7 and the #838 the "Fo bound from Hull to with 62 persons on board, struck on the Farne Islands 43 being drowned | cluster, and are 1 to 2 ft high, slender, erect and end in a rounded The wreck was observed from the lighthouse, and Darling and his daughter determined to try to reach the survivors. By a combination of daring, strength and skill, the father and daughter reached the wreck in their coble and brought back four men and a woman to the lighthouse. Darling and two of the rescued men then returned to the wreck and brought off the four remaining survivors. Grace Darling and her father received the gold medal of the Humane Society, the Treasury made a grant, and a public subscription was organized Grace Darling died of consumption on Oct. 20, 1842

See Grace Darling, her tive story (1880); Grace Darling, The Maid of the Isles (1839), E Hope Grace Darling (1875), T Arthur, Grace Darling (1885)

DARLING: see MURRAY-DARLING (river and basin) DARLINGTON, market town, county and parliamentary borough, Durham England, 232 m N. by W of London on the LNE railway Pop (1921) 65,842 It has on the river Skerne, a tributary of the Tees, not far from the main river. Its appearance is almost wholly modern, but there is a fine old parish church on the site of an earlier church, dedicated to St Cuthbert. It is cruciform and in style mainly transitional Norman, and has a central tower surmounted by a spire of the 14th century Educational establishments include an Elizabethan grammar school, a training college and a technical school. There is a park of fortyfour acres. The industries include worsted-spinning, coal and ironstone mining, quarrying and brick-making, the manufacture

of iron and steel into locomotives, bridge castings ships' engines, gun castings and shells, etc. The parliamentary borough returns one member The town was incorporated in 1867 Area, 4,614

Not long after the monks of Lindusfarne had settled at Durham in 995, Styr gave them the vill of Darlington (Dearthington, Darnington), which by 1083 had grown into importance Bishop William of St. Carileph in that year changed the church to a collegiate church Bishop Hugh de Puiset rebuilt the church and built a manor house which was for many years the occasional residence of the bishops of Durham Boldon Book, dated 1183, contains the first mention of Darlington as a borough, rated at £5, while halt a mark was due from the dyers of cloth. The next account of the town is in Bishop Hatfield's Survey (c 1380) which states that "Ingelram Gentill and his partners hold the borough of Derlyngton with the profits of the mills and dye houses and other profits pertaining to the borough rendering yearly four score and thirteen pounds and six shillings." Darlington possesses no early charter, but claimed its privileges as a borough by a prescriptive right. Until the 19th century it was governed by a bailiff appointed by the bishop Before the 19th century Darlington was noted for the manufacture of linen, worsted and flax, but it owes its modern importance to the opening of the railway between Darlington and Stockton on the 27th of September 1825. "Locomotive No. 1." the first that ever ran on a public railway, stands in Bank Top station. Darlington sent no members to parliament until 1862, when it was allowed to return one member. The fairs and markets in Darlington were formerly held by the bishop and were in existence as early as the 11th century. The markets and fairs were finally in 1854 purchased by the local authority, and now belong to the corporation

DARLINGTON, a town of north-eastern South Carolina, USA., served by the Atlantic Coast Line and the Seaboard Air Line railways; the county seat of Darlington county. The population was 4,669 in 1920 (42% negro) and was estimated locally at 6,000 in 1928 It has a cotton factory with 51,000 spindles (1928), cotton-seed oil mills, tobacco warehouses and stemming plants, veneer and lumber mills and other manufacturing industries. The town was founded about 1785

DARLINGTONIA (after Wilham Darlington, an American botanist), a Californian pitcher-plant, belonging to the family Sarracentaceae There is only one species, D californica, which is found at 3,000 ft. to 6 000 ft altitude in the mountains of northern California and south-western Oregon, growing in sphagnum-bogs along with sundews and rushes. The pitcher-like leaves form a

hooded top, from which hangs a blade shaped like a fish-tail which guards the entrance to the pitcher. Insects are attracted to the leaves by the bright colouring especially of the upper part, entering, they pass down the narrow funnel guided by downward pointing hairs which prevent their ascent. They die and decompose at the bottom of the pitcher. No digestive enzyme has been



DARLINGTONIA. CALIFORNICA. SHOWING TWO OF THE PITCHERS (LEAVES) WITH CURVED TOPS END. ING IN FISHTAIL FLAPS IN FRONT interior

observed in this pitcher (see INSECTIVOROUS PLANTS), but the products of putrefaction are presumably absorbed by the walls of the pitcher and act as an additional supply of food, particularly of nitrogen

DARLY, MATTHIAS or MATTHEW, 18th century English caricaturist, designer and engraver This extremely versatile artist produced social and political caricatures, designed architectural and mobiliary accessories, made many engrav-ings for Thomas Chippendale, and sold his own productions at his print-shop in the Strand (and elsewhere) which was one of the first to stock prepared colours and materials for artists His first known publication is a coloured caricature, "The Cricket Players of Europe" (1741) Darly was in partnership with one Edwards, with A. Flower with floral leaves removed ship with one Edwards, with B Leaf cut across to show hollow whom he published many political prints which were collected

annually into volumes under the title of Political and Satirical History. He published in 1754 A New Book of Chinese Designs and engraved many of the plates for the Director of Thomas Chippendale In 1770-71 appeared Darly's most important work-The Ornamental Architect or Young Artists' Instructor, the title of which became in the 1773 edition A Com pleat Body of Architecture, embellished with a great Variety of Ornament In 1767 he issued Sixty Vases by English, French and Italian Masters. His last caricature was published in October 1780, and as his shop, No 39 Strand, was let to a new tenant in 1781, it is presumed that he had by then died or become incapable of further work.

See George Paston. Social Caricature in the 18th Century (1905).

DARMESTETER, ARSÈNE (1846-1888), elder brother of James Darmesteter (see below), was a distinguished philologist and man of letters. He studied under Gaston Paris at the École des Hautes Études, and became professor of Old French language and literature at the Sorbonne. He collaborated with Adolphe Hatzfeld in a Dictionnaire général de la langue française (2 vols, 1895-1900) Among his most important work was the elucidation of Old French by means of the many glosses in the mediaeval writings of Rashi and other French Jews His scattered papers on romance and Jewish philology were collected by James Darmesteter as Arsène Darmesteter, reliques scientifiques (2 vols, 1890) His Cours de grammaire historique de la langue française was edited after his death by E Muret and L Sudre (1891-95, English edition, 1902).

DARMESTETER, JAMES (1849-1894), French author and antiquarian, was born of Jewish parents at Château Salins, Alsace. The family name had originated in their earlier home of Darmstadt. He studied in Paris under Michel Bréal and Abel Bergaigne. In 1875 he published a thesis on the mythology of the Zend Avesta, and in 1877 became teacher of Zend at the Ecole des Hautes Etudes He followed up his researches with his Études iraniennes (1883), and ten years later published a complete translation of the Zend Avesta, with historical and philological commentary (3 vols. 1892-93). in the Annales du musée Gumet He the elient the Zent design for Max Maner's haved Breas et ac 000 000 Relabsmarks when the gold balance sheet was drawn re one draw has comment outlied placing for carmet in the seccenter an and the bulk in the 3rd derivey of the 1983 have was appealed profession to the Cologo to France and was sens to India in 1-25 or a ruses in to coulet the popular sense of the Africate a man-order of maich with a relaine essay on the Alghor unmare and literactive be published on his return. His refreshment Collaboration in India wite emptyed in Little on and the first He norm of A Mary F. Robinson ion Decrerc Mase He net on the or again

The end of the on James Library and the Journal admittae of the silver of flees of the a name by Henry Corden, with a let of the forward in The Roma is the Sound's Journal (Jan. 1905), we not the Care Thomas James Connected in Perseus of Steel (1801) pp. 1—12.

DARMSTADT, a city of Germany, capital of the regulate of Herse-Darms adt, on a plun cently sloping from the Odenwold to the Rhine of the by rail S.E. from Mainz and 17 m S.

from Frankfort-on-Main. Pop (1905) 89465.

Darmstadt is meanined in the 11th century but in the 14th tentury it was still a sulage held by the counts of Katzenelnlugar Is came by narrage into the possession of the house of Hesse in 1479 the male one of the house of Kaizereinbogen having in this year become extinct. The imperial army took it in the 5th markildi: War, and destroyed the old castle. In 1567 after the death of Philip the Megnanimous, his youngest son George received Darmstudt and chose it as his residence He was the founder of the line of Hesse-Darmstadt. Its most oriffant days were those of the reign of Louis X (1-90-1830) the first grand-duke, under whom the new town was built.

Dermstant coesists of an old and a new town the streets of the former being narrow. In the new town is the stately Luisenplais, on which are the house of parhament, the old palece and the past office, and, in the centre a statue of the grand-duke Louis of buildings of various centuries. Adjoining the palace gardens, are the theatre and armoury, and a little farther west the museum, a library of 600,000 volumes and 4,000 mss a museum of Egypthat and German antiquities, a picture gallery with masterpieces of eld German and Durch schools a notural history collection and the 5t its archives. To the south of the castle has the old town. with market equare, town half and town church. The town possesses a technical high school, having (since 1900) power to confer the degree of doctor of engineering, and attended by about econ students tau gymnasia, a school of agriculture, an artisans' school and a botanical garden. The chemist, Justus von Liebig. was born in Darmstadt in 1803. The industries are very varied.

To the east of the town lies the Mathildenhähe, formerly a park and now converted into villa residences. Here are the Alice haspital and the Russian thurth, built (1898-99) by the emperor Nicholas II. of Russia in memory of the empress Maria, wife of

Alexander II

See Walther, Darmstadt wie es war und wie es geworden (Darms. 1865); and Zernin und Worner Darmstadt und seme Emgagung (Zanica, 1890).

DARMSTADTER UND NATIONALBANK. The Bank is a merger of the Bank für Handel und Industrie (generally known as the Darrustsätter Bank, with the Nationalbank for Deutschmad. The amalgamation took place in 1922

The Book fulr Handel und Industrie was founded in 1853 in Dormetson It was in intimate relationship with the most imwritant firms and possessed a large number of branches

The Nationalbank for Doutschland was founded in 1881. In appea after having absorbed the Deutsche Nationalbank in Bremen and later the Holsten Bank in Neuroinster, it turned its attention to oranch benking The Nationalbank for Demschland saw in his relationships with industrial enterprises the main support of its bushess and by founding, or collaborating in the founding, of many important German enterprises it established a basis for deplicate and synthesis investment business.

The capital of the Darmenider and Nationalhank in 1918 was Christian Statisticanstr and the

in by Durm store regarded the main texts as for more up in 1914; were increased by 10,000 000 in 1927 and by an additional 3 oco coo m 1928, the reserves ar ounting to 55 oco oco Reichemarks

The Darmstadter and Nationalbank is represented in the management of the most important industrial enterprises of Germany and as on the board of approximately 2,000 companies The Bank also has a number of foreign investments in other cares abroad 1. founded together with an international group the 'Internationale Bank to Amsterdam' with the object of entring out international finincial transactions

In 1928 the Darmstadeer and Nationalbank owned 143 bank buildings, had branches in approximately 120 towns (A SN -

DARNLEY, HENRY STEWART or STUART, LORD 1545-15671 earl of Ross and duke of Albany second husband of Mary, queen of Scots was the eldest son of Matthew Stewart, earl of Lennex (1516-1571), and through his mother Lady Margaret Douglas (1515-15-3) was a great-grandson of the English king Henry VII. Born at Temple Newsam in Yorkshire on Dec. 7, 1545, he was educated in England. After the death of Francis II in 1560 Darnley was sent to France by his mother, who hoped that he would become king of England on Elizabeth's death and entertained the idea of his marriage with Mary, queen of Scors, the widow of Francis, as a means to this end. In 1561 both Lady Margaret and her son, who were English subjects were imprisoned for a short time by Elizabeth and Damley spent some time at the English court before going to Scotland in Feb 1365 The marriage of Mary and Darnley was now definitely proposed, and the queen, having nursed her new suitor through an attack of measles, decided to marry him. Elizabeth had permitted Daraley's journey to Scotland, but she and her council declared their dislike of the proposed marriage and ordered Damley and his father to repair to London, a command which was disobeyed. In March 1565 there were rumours that I the founder of the new town. The ducal palace is a complex , the marriage had already taken place, but the public marriage, at all events was cerebrated at Holyrood on July 29, 1565.

Although Mary had doubtless a short infatuation for Darnley. the union was mainly due to political motives, and trouble soon arose between them Contrary to his expectations Darnley did not receive the crown matrimonial. He was on bad terms with the regent Murray and other powerful nobles, who disliked the marriage and were intriguing with Elizabeth. He was in addition soon estranged from his wife. He became jealous of David Rizzio, and was easily persuaded to assent to the murder of the Italian a crime in which he took part. Immediately afterwards, however, flattered and cajoled by the queen, he betrayed his associates to her, and helped her to escape from Holyrood to Dunhar. Deserted and distrusted by his companions in the murder, he decided to leave Scotland, but a variety of causes prevented his departure, and meanwhile at Craigmillar a band of nobles undertook to free Mary from her husband, who refused to be present at the baptism of his son, James, at Stirling in Dec. 1566 The details of the conspiracy at Craigmillar are not clear, nor is it certain what part if any. Mary took in these proceedings. The first intention may have been to obtain a divorce for the queen, but it was soon decided that Darnley must be killed. Rumonrs of the plot came to his ears, and he fled from Stirling to Glasgow, where he fell ill, possibly by poisoning, and where Mary came to visit him Another reconciliation took place, and Darnley was persuaded to journey with Mary by easy stages to Edinburgh. They stayed for a few days at Kirk o' Field, a house just inside the city walls. On the evening of Feb. 9, 1567 Mary bade her husband farewell, and went to attend some gareties in Edinburgh. A few hours later, on the morning of the 10th, Kirk o' Field was blown up with gunpowder Darnley's body was found at some distance from the house, and it is supposed that he was strangled whilst making his escape. The remains were afterwards buried in the chapel at Holyrood

As the father of King James L, Damley is the direct ancestor of all the severesgus of England space 603

For further

and also for a lest of the works bearing a

DARRANG, a district of British India, in the province of bighest of these are Yes Tor and High Willhays (2,028 and 2 039 Assam It des between the Bhutan and Dafla hills and the Brahmaputra including many islands in the river. The administratice headquarters are at Tezpur (pop 7311) on the right are found here. Only two good roads cross the moor, one between bank of the Bruhmaputra. Its area is 3 197 sq m. Pop. (1921) Exeter and Plymouth, and the other between Ashburton and 477 935. This area was reduced in 1914 by the transfer of 500. Tavistock, intersecting at Two Bridges. The central part of sq m. of almost uninhabited country to the Bahpura Frontier. Dartmoor was a royal forest from a date unknown, probably watered by many tributaries of the Brahmaputra. The district, than now, but a few small tracts or dwarf oaks remain in the contains the two subdivisions of Tezpur and Mangaldai, tea being lower parts. Previous to 1337 the forest had been granted to the principal cultivation in the valley of Tezpur, and rice in Mangaldai In Tezpur the density has risen to 157 per sqm from 12 m 1800 owing to large areas of waste land being brought under cultivation. In Mangaldai 300 sq m. are available for settlement There were 58 coo acres under tea with an output of 274 million Ib in 1921, when the tea-garden population numbered 122 749 There are 568 sq m. of reserved forests, mostly at the foot of the hills along the northern boundary.

DARROW, CLARENCE SEWARD (1857can lawyer, was born at Kinsman, O, April 15, 1857. He recerved a public school education and was called to the bar in 1875 afterward- practising in Chicago. He appeared as counsel in a large number of important cases, many of which attracted wide attention, and he became recognized as one of the leading crimmal lawyers in the United States He was retained by the labour organizations in much of their litigation of recent years. Among the celebrated cases in which he appeared were the Debs strike case (1895), anthracite coal strike arbitration (1902), Steumenburg murder (1907). The Los Angeles Times dynamite case (1911) and the Loeb-Leopold case (1924). In July 1925 he defended J T. Scopes at the Tennessee evolution trial. He has written Crime, Its Cause and Treatment (1922), Farmington, A Persian Pearl and Other Essays, An Eye for an Eye, The Prohibition Mania, and many other books and pamphlets on social, literary and economic questions. For many years he has been a wellknown platform speaker and debater

DARTER, the name often applied to the snake-bird (qv)or water-turkey (Anhinga).

DARTFORD, urban district and market town of Kent. England 17 m. ESE of London, by the SR. Pop (1951) 25,952 The town lies in the valley of the Darent about 3 m from the Thames, and is flanked by two chalk hills Its most noteworthy building is the parish church, restored in 1863, which contains an old fresco and several interesting brasses, and has a Norman tower. The grammar school dates from 1576.

Dartford was the scene in 1235, of the marriage, celebrated by proxy, between Isabella, sister of Henry III., and the Emperor Frederick II., and in 1331 a famous tournament was held in the place by Edward III. The same monarch established an Augustinian numnery on West Hill in 1355, of which however, little remains After the Dissolution it was used as a private residence by Henry VIII, Anne of Cleves and Elizabeth The chantry of St Edmund the Martyr on the opposite side of the town was a part of Edward III's endowment to the priory, and became famous as a place of pilgrimage on the way to Canterbury. The part of Watling Street which crossed there towards London was sometimes called "St. Edmund's Way" Wat Tyler's insurrection began at Dartford in 1377 On Dartford Heath is the mental home maintained by the London County Council. Greenhithe, on the banks of the Thames, has large chalk quarties in its neighbourhood, from which lime and cement are manufactured. One of the first attempts at the manufacture of paper in England was made here by Sir John Spielman (d 1607) jeweller to Queen Elizabeth. Paper making is still important here as well as chemical, metal and leather working

DARTMOOR, high plateau in south-west Devonshire, England. It is 23 m from north to south, 20 m. from east to west 200 sq m. in area with a mean altitude of 1,500 feet. It is the highest and easternmost in a broken chain of granitic elevations which extends to the Scilly isles. The higher parts are open, bleak and wild. Sloping heights rise from the main tableland, crested with broken masses of granite locally named terr. The

feet). Large parts of the moor are covered with morasses, and head-waters of all the principal streams of Devonshire (qt) Tract formed in that year. It is for the most part a level plain thefore the Conquest. Its woods were formerly more extensive Richard, earl of Cornwall, by Henry III, and from then has belonged to the Duchy of Cornwall The districts immediately surrounding the moor are called the Venville or Fenfield districts. The holders of land by Venville tenure have rights of passure, fishing, etc., in the forest. (For antiquarian remains see Devon)

> Princetown prison was built in 1809 to house French prisoners and was adapted for use as a convict station in 1850. A tract of moorland adjacent to the prison has been brought under cuitivation by the inmates

DARTMOUTH, EARL OF, an English title borne by the

family of Legge from 1710 to the present day

WILLIAM LEGGE (c 1609-1670), the eldest son of Edward Legge (d 1616), vice-president of Munster, assisted Charles I. in his war against the Scots in 1638. He was also very useful to the king during the months which preceded the outbreak of the Civil War, although his attempt to seize Hull in Jan 1642 failed During the war Legge distinguished himself at Chalgrove and at the first battle of Newbury, and in 1645 he became governor of Oxford. Legge helped Charles to escape from Hampton Court in 1647, and was arrested in May 1648. He was released, but was again captured in 1649, and remained in prison until 1653. He then spent some years abroad, but in 1659 was in England inciting the royalists to rise. The old royalist died on Oct. 13, 1670

Legge's eldest son George, Baron Dartmouth (1647-1691), served as a volunteer in the navy during the Dutch war of 1665~ 1667 He was a member of the household of the duke of York afterwards James II. was governor of Portsmouth and mastergeneral of the army. In 1678 he commanded as colonel the troop at Nieupoit, and in 1682 he was created Baron Dartmouth. In 1683 as "admiral of a fleet" he sailed to Tangiers dismantled the fortifications and brought back the English troops. Under James II. Dartmouth was master of the horse and governor of the Tower of London; and in 1688 when William of Orange was expected, James II made him commander-in-chief of his fleet Although himself loyal to James, the same cannot be said of many of his officers, and an engagement with the Dutch fleet was purposely avoided Partmouth, however, refused to assist in getting James Edward, prince of Wales, out of the country, and even reproved the king for attempting this proceeding. He then left the fleet and took the oath of allegiance to William and Mary, but in July 1691 he was arrested for treason, and was charged with offering to hand over Portsmouth to France and to command a French fleet Dartmouth protested his mnocence. He died in the Tower of London on Oct 25, 1691 before the question was investigated (See Dartmouth Papers [Hist Mss Comm. 2nd Report ix and spp pp. 9-12, 1870-72])

Lord Dartmouth's only son, WILLIAM, 1ST EARL OF DARTMOUTH (1672-1750), succeeded to his father's barony in 1691. He became secretary of state for the southern department and joint keeper of the signet for Scotland in 1710 In 1711 he was created viscount Lewisham and earl of Dartmouth, in 1713 he exchanged his offices for that of keeper of the privy seal, which he held until the end of 1714. After a long period of retirement from public life he died on Dec. 13, 1750.

WILLIAM, 2ND EARL OF DARTMOUTH (1731-1801), grandson of the 1st earl, was lord privy seal at the begunning of the dispute with the American colonies. He advised them in 1777 to accept the conciliatory proposals put forward by Lord North, but in 1776 he opposed similar proposals and advocated the employment of force In March 1782 he resigned his office and in 1783 became ford steward of the bousehold he died on July 15 1801 Dart months party and his intimacy with the early Methodists won for

House Wingermany of the mary letters from America relating year of the undergraduate comege to one similarly to it offendence frinced in Derivicula Papers 'Ast I as Con to the Rep up 10-13 and app 1 1-100, 1887)

DARTMOUTH, a scapert and to an or Decemente, England on the E of Figure 12 , signing their seathed near, the mount at the river fruit which here forms an aemost landnaked county who is contacted by their sleamer and Align-, went on the epipalia share. The houses use in their from the span deplated in the of half The purch church of st. Society e of the 14th and is herefore unite insulations are one roud-screen, as anether wome output and her mores. The obvious of the Person and at Comm. which are only Early English, a present resold River steamers ply to Tomes, so m up the Dart

a seaport of importance when Earl Beom was buried in its. church in 1949. From its sherrered harbour William II em- hall for museum purposes barked in 1000 for the relief of Mars and Richard I's squadran set sail for the crusades in 1190, while John kinded here in 1214 The borough first claimed as such in the reign of Henry I was in existence by the middle of the 13th century. In the , 13th century Darmouth was required to furnish ships for the king's service, on obligation maintained throughout the following century. In 1342 the town was incorporated by a charter frequently confirmed by later sovereigns. A French attack on the town was repulsed in 1404, and in 1485 the burgesses received a royal grant of allo for walling the town and stretching a chara acress the river mouth. Destmouth fixed out two ships against the Arrada and was captured by both the Royalsts and Parhamentariars in the Civil War Manoria, markets were granted for j Dammouth in 1231 and 1301. These were important, since as early as 1225 the fleet reserted there for provisions. During the

DARTMOUTH, a town in Halifax county, Nova Scotia. Canada on the north-eastern sice of Halifax harbour connected by a steam ferry with Halitax, of which it is practically a suburb Pop. (1901) 7,399 It contains a large sugar refinery, foundries, machine shops saw mills skate rope, nail, soap and sash factories and also the Impenal Cil Works.

DARTMOUTH COLLEGE, an American institution of higher education in Hanover New Hampshire. It is Congregational by origin but actually non-sectarian. Dartmouth embraces the original college, incorporated in 1769, a medical school, dating [from 1793; the Thayer School of Civil Engineering, established m 1867 by the bequest of General Sylvanus Thayer, and the Amos Tuck School of Administration and Finance, established in 1000 by Edward Tuck-the first, and until the establishment at Harvard of a similar graduate school, the only commercial school in the country whose work is largely post-graduate. The Chandler School of Sciences and the Arts was founded by Abiel Chandler an 1851 in compaction with Dartmouth and incorporated in the collegiate deportment in 1893 as the Chandler scientific course in the college. From 1866 to 1893 the New Hampshire College of Agriculture and the Mechanic Arts, now at Durham, was connecred with Dartmonth. The medical school granted the degree of M.D. until 1914, when the last two clinical years were discontinued. The resources of the school are now concentrated on

his the spices, of the First order. Librarouth College was "Tuck school mainth reach a two years course, the first year of mired in a first and the serior mired in a first and mired in the serior conditions to counted as the serior

The college has a beautiful campus, 15 instruction halls, 19 residence halfs the most recent completed in 1928 with accommodation for 1450 students a large gymnesium built in 1911 by a amni, such the Spaulding swimming pool (1914) and the Davis field boose (1927) attached, and large athletic fields, an auditorum. Webster hall (1901). College hall (1901) a social headquarters Rollins chape, (1885); an astronomical and meteorological observatory (Shattuck observatory, 1854) The Fisher Arres Breez Mercoriai Library (completed 1028) replaces Wilson hail (1965) and contains 235 000 volumes. This library, the gift of George F Baker, cost \$1 000 occ. The physical laboratory is respectively the amount fractions of Ulit on and Heroness which loused in Wilder null (1997). Instruction in checustry is given with Datastach are the become its official name of Clifton- in the Steele Chemistry Laboratory (1921), the natural sciences Dartmouth-Hardrass. Dartmouth-Hardrass. Dartmouth-Hardrass. Dartmouth-Hardrass. commands the fiver the wroned tastic estate was purchased by are also maintained, while botany is taught in the Clement greenthe corporation in 1 21 Tittions of the cottage of Thomas New- house (1923). Parkburst hall (1911) contains the administratomen, one of the invertine of the steam-engine, are preserved, tive offices, and Robinson ball (1914) is the home of all college. The Royal Noval Cade to ege ous opened in 1905 to take the consanizations other than athletic. The Mary Hitchcock Memoplate of the Ertannia training-ship, it occudes the site of a ma. Hospital (1891) is associated with the Medical School, and former sent called Moont Borne. Durtmouth is a favourite Dick Hall's house (1927) adjoining the hospital is a completely yarbung senter and yarbin, bout and shipped they equipped informary for to students. The college owns the Hanover neering and paint-making are carried on Coal is imported, and Inn with accommodation for 150 guests and maintains single or apartment houses for 50 faculty families. In 1928 there were un-Probably awing its origin to Saxon invaders, Darrmouth was der construction Carpenter hall (fine arts). Saxborn house (Engush) and two dormucries, as well as the remodelling of Wilson

Dartmouth is the outgrowth of Moor's Indian Charity School, founded by Eleazar Wheelock (1711-791 about 1750 at Lebanon, Connecticut This school was named in 1755 in honour of Joshua Moor, who in this year gave to it lands and buildings. In 175¢ Samson Occorn (c 1723-92), an Indian preacher and former student of the school, visited England and Scotland in its behalf and raised £10,000, whereupon plans were made for enlargement and for a change of site to Hanover. In 1769 the school was incorporated by a charter granted by George III as Dartmouth College, being named after the earl of Dartmouth president of the trustees of the funds raised in Great Britain. The first college building, Dartmouth hall, was built between 1784 and 1791 This building was destroyed by fire in 1904 and reproduced in brick through gifts of alumn. The college church, built in 1796 and enlarged in 1877 and 1880, is still standing, as is the second build-14th and 15th centuries there was a regular trade with Bordeaux ing for Moor's Charity School, since 1852 called the Chandler and Britishy and complaints of piracies by Durtmouth men were! building During the War of Independence the support from Great Britain was mostly withdrawn. In 1815 President John Whee ack (1754-1817), who succeeded his father in 1779, and was a Presbyterian and a Republican, was removed by the majority of the board of trustees, who were Congregationalists and Federalists, and Francis Brown was chosen in his place. Wheelock, upon his appeal to the legislature, was reinstated at the head of a new corporation called Dartmouth University. The State courts upheld the legislature and the "university," but in 1819 after the famous argument of Daniel Webster (q.v) in behalf of the "college" board of trustees as against the "university" board before the US Supreme Court, that body decided that the private trust created by the charter of 1769 was inviolable, and Dr Francis Brown and the old "college" board took possession of the institution's property The Supreme Court has had frequent occasion to reaffirm the principles of the College Case, and at the Webster centenmal celebrated at the college in 1901 Alfred Russell stated that the Dartmouth College Case had at that time been cited in judicial opinions more frequently than any other in the American reports—about 970 times

The annals of the college have been tranquil with the exception of the disturbed years of the "University" controversy During the Civil War Dartmouth College contributed 652 alumni and undergraduates to the Union armies In the World War 3.319 graduates, imdergraduates and faculty served in the military forces of the United States Those aying in active service num the first two years of the course. The Thayer school and the bered 112 During most of the oth century there was little

istration of President William Jewett Tucker (1893-1909), however a great expansion of equipment, endowment and enrolment took place which has continued during the present administration ! increased from 256 students and 19 members of the faculty in 1800 to 2,200 students and more than 250 members of the faculty in 1928-29 In 1890 91% of the students came from New England. The constituency of the college gradually changed, until in 1926-27 only 41% of the men came from homes within those States The productive investment assets of the college also increased from approximately \$1,000 000 m 13go to \$10 000,000 in 1928 The tuition cost in 1928 was \$400 a year, provision is made through scholarships for assisting deserving students unable to pay this sum. The government is entrusted to a board of 12 trustees, five of whom are elected upon the nomination of the alumni. Applicants for the entering class are selected on a basis of character, scholarship and general promise of profiting by a college course. Out of more than 2,000 applicants who apply each year, an entering class is selected designed to maintain a total number in the college of 2,000

During President Hopkins' administration several important features were introduced. A personnel department for advice on the curriculum and later occupation was organized. Outdoor recreation was made compulsory in the two lower classes. Experts in psychiatry and in nutrition were added to the college staff In June 1925 certain major changes were made in the curriculum providing inter alia for special treatment for students of higher grade and for the granting of but one degree, Bachelor of Arts One of the interesting influences of the college is premoted by the Dartmouth Outing Club, which maintains a chain of 15 cabins between Hanover and the White mountains and promotes winter sports

See Frederick Chase, A History of Durtmouth College and the Town of Hunover (Cambridge, 1801), John K. Lord, History of Dartmouth College 1815–1909 (Concord, 1013), Wilder D. Quint, The Story of Dirtmouth (Boston, 1916); The Proceedings of the Websiter Centernal of Dartmouth College (1901), 150 Years of Dartmouth College (1919). For the Dartmouth College Case see Tunothy Farrax, Report of the Case of the Irustees of Dartmouth College against William H. Woodward (Portsmouth, 1819), Shirley, The Dartmouth College Causes (St. Louis, Mo., 1879), Kont, Commentaries on American Law (vol. 1, Boston, 1834), and Joseph Story, Commentaries on the Constitution (vol. ii., Boston, 1891) See Frederick Chase, A History of Durtmouth College and the Town

DARU, PIERRE ANTOINE, COUNT (1767-1829), French soldier, was born at Montpellier on Jan. 12, 1767 He was a great army administrator, and served as commissary to the army of defence of the Breton coast (1793), in Masséna's army in Switzerland (1799), in Berthier's army in Italy (1799), and again on the Breton coast (1803) He enjoyed the complete confidence of Napoleon, who employed him as chief commissary of the Grand Army in 1805, and made him intendant of his military household. In the campaigns of 1806-07 he served, in his usual capacity, in the army which overthrew the forces of Russia and Prussia; and he had a share in drawing up the treaty of Tilsit (July 7, 1807). After this he supervised the administrative and financial duties in connection with the French army which occupied the principal fortresses of Prussia At the congress of Erfurt Daru was present at the interview between Goethe and Napoleon, and interposed tactful references to the works of the great poet. Daru served again as commissary in the campaign of 1809 against Austria. and late in the year 1813 he took up the portfolio of military affairs. After the first abdication of Napoleon in 1814, Daru retired into private life, but aided Napoleon during the Hundred Days After the second Restoration he became a member of the Chamber of Peers, in which he defended the cause of popular liberty against the ultra-royalists He died at Meuian on Sept 5, 1829

Few men of the Napoleonic empire have been more generally admired and respected than Daru On one occasion when he expressed a fear that he lacked all the gifts of a courtier. Napoleon replied, "Courtiers! They are common enough about me, I shall never be in want of them. What I want is an enlightened, firm and vigilant administrator, and that is why I have chosen you" At another time Napoleon said, "Daru is good on all sides; he has

variation in the numbers attending the college. With the admin- good judgment, a good intellect, a great power for work and a body and mind of iron,'

Among Daru's aterary works are his Histoire de Venuse (vols . 1819). Histoire de Bretagne (3 vols., 1826), a poetical translation of Ernest Martin Hopkins, the 17th president. The enrolment of Horace; Discours en vers sur les facultés de l'homme (1825). and Astronomie, a didactic poem in six cantos (1820)

See the "Notice" by Viennet prefixed to the fourth edition of Daru's Histoire de la république de Venue (9 vols, 1853) and three articles by Sainte-Beive in Causeries au lunds, vol. ix For the many letters of Napoleon to Daru see the Correspondance de Napoleon Ier (32 vols, 1858-70)

His son, Napoléon Daru (180;-1890) created count in 1832, was a bberal member of the National Assembly in 1848, and of the Legislative Assembly (1869) and foreign minister in 1870. He sat as a conservative in the National Assembly (1871-75), and in the senate from 1876 to 1879

DARWEN, municipal borough, Darwen parhamentary division Lancashire, England, 20 m north-west from Manchester by the LMS railway. Pop (1921) 37.906 It lies on the river Darwen, which traverses a densely populated manufacturing districe, and is surrounded by high-lying moors. In the neighbourhood are collienes and stone quarries. Darwen manufactures cotton goods paper, and has blast furnaces and fire-clay works It has a market hall, technical schools, a free I'brary, and two public parks. Darwen was incorporated in 1788

DARWIN, CHARLES ROBERT (1809-1881), English naturalist, sutbor of the Origin of Species, was born at Shrewsbury on Feb 12 1809, the grandson of Dr Erasmus Darwin (qv.) His mother, a daughter of Josiah Wedgwood (1730-1795), died in 1817 Charles's elder brother Erasmus Alvey (1804-81), was interested in literature and art rather than science: on the subject of the wide difference between the brothers Charles wrote that he was "inclined to agree with Francis Galton in believing that education and environment produce only a small effect on the mind of anyone, and that most of our qualities are innate" (Life and Letters, London, 1887) Darwin considered that his own success was chiefly due to "the love of science, unbounded patience in long reflecting over any subject, industry in observing and collecting facts, and a fair share of invention as well as of common sense" (ibid.) He also says: 'I have steadily endeavoured to keep my mind free so as to give up any hypothesis, however much beloved (and I cannot resist forming one on every subject), as soon as facts are shown to be opposed to it" (ibid.). The essential causes of his success are to be found in this latter sentence, the creative genius ever inspired by existing knowledge to build hypotheses by whose aid further knowledge could be won, the calm unbiassed mind, the love of truth which enabled him to abandon or to modify his own creations when they ceased to be supported by observation. The great naturalist appeared in the ripeness of time, when the world was ready for his splendid generalizations. In the preparation for Darwin Sir Charles Lyell's Principles of Geology played an important part, accustoming mens minds to the vast changes brought about by natural processes, and leading them, by its lucid and temperate discussion of Lamarck's and other views, to reflect upon evolution

Darwin studied at Shrewsbury School under Dr Samuel Butler (1774-1839), and in 1825 went to Edinburgh to prepare for the medical profession, for which he was unfitted by nature. In 1828 his father sent him to Christ's College, Cambridge with the idea that he should become a clergyman. He took his degree m 1831, tenth in the list of those who do not seek honours Both at Edinburgh and at Cambridge he gained the friendship of older scientific men-Robert Edmond Grant and William Macgillivray at the former, John Stevens Henslow and Adam Sedgwick at the latter From Dec 1831 to Oct. 1836, Darwin was on the "Beagle" as naturalist for the surveying expedition. After visiting the Cape de Verde and other Atlantic islands, the expedition surveyed on the South American coasts and adjacent islands (including the Galapagos), afterwards visiting Tahiti, New Zealand, Australia, Tasmania, Keeling Island, Maldives, Mauntius St Helena, Ascension and Brazil, de Verdes and 20 25

S.c. 185: and 1354,

Firms a rate of the communities to the exhibit arms to The tight his the real payment for his literactic Ris 61seed one entitle to elimine necession with a work of entity of the fullest of the age be viete hims sources ind those " make the one of the me to and facility and the same country, related but must be a me and him to reduce a root the modification of at renain safe the discontinuous or a new but the manner in serve than the animals represented for the proceeding shadwards to rough Arterior. His poster shield the 1657 conolder to a tree of July operated that he've und an Transmillaor of the a- if it there will, which from about the month; if you are March is the said of the voyage and just over two proceeds years of the transcript South American fossils and species on the pages Architecting. These facts respectably interported of the transcript. From 1838 to 1841 he was socreiany of the beautiful malety and and a great deal of Sir Charles Lief! to whom he dedicated the second edition of his Journal In Jan 1939 he married his coaste Emma Wedgwood They

stone of man's success. But how selection could be applied to mystery to me. Various ideas a to the causes of evolution had to be successively abandoned. He had the idea of "laws of change which affected species and finally led to their extinction, to some estent artiogous to the causes which bring about the development, rectarity and finally death of an individual. He also bad the conception that species must give rise to other species or else die our just as an individual dies unrepresented if it bears no offspring. In Oct. 1538 he read Multius on Population, and has observations having long since convinced him of the struggle for existence, it at once struck him "that under these circumstances tavour,ble viriations would tend to be preserved, and unfavourable ones to be destroyed. The result of this would be the formation of new species. Here, then, I had a theory by which to work." In June 1511 he wrote out a sketch, which in 1344 he expanded to an essay of 231 pages folio. The idea of progressive divergence as an advantage in itself, because the compedition is most severe between organisms most closely re- [lated, did not occur to him until long after. In Jan 1844 he wrote to his friend Sar Joseph Hooker: "At last gleams of light have come, and I am almost convenced (quite contrary to the opinion I started with) that species are not (it is like confessing a murder's immusable" (ibid ii 13). In 1857 he explained his views to the great American botanist Asa Gray in a letter which afterwards became classical. He had completed about half of a third and for more expanded treatise, when, in June 1858, he received a manuscript from A. R. Wallace, who was then at Ternate in the Moleccas. Wallace wanted Darwin's opinion on the manuscript, which he asked should be forwarded to Lvell. Darwin was much startled to had in the essay a complete abstract of his own theory of astural selection. He wrote to Lyell, "your words have come The wind a reasonable first I also the forestalled." He placed the forestalled to send the first and the first an abstract the send that the first an abstract the first the first than abstract than the first than the of Daywin's work, which they asked him to prepare, the joint ducts being accompanied by an explanatory letter to the secretary. The tipe of the Julia conscious contion was "On the Tendency of Species to form Varieties; and on the Perpetuation of Varieties and Species by Natural Mesos of Selection." It was read on In the last appears in the Linn. Soc. Journal (Zoology) for the form its the subjection on the theory of authors selection.

18 4 es a mel argabref account of sexual selection the second an obstract of his letter to Asa Gray dated Sept The state of the s theory explaining by its are the colours of desert birds etc. (Ibis Úct 18591

Acting under the advice of Lyell and Hooker Darwin published on Nov 24 1859, his great work On the Origin of Species by Meers of Natural Selection, or the Preservation of Favoured Reces on the Struggle for Life The whole edition of 1,250 copies was exhausted on the day of issue. The first four chapters explain the operation of artificial selection by man and of natural selection in consequence of the straggie for existence. The fifth thap ter deals with the laws of variation and causes of modification other than natural selection. The five succeeding chapters consider difficulties in the way of a besief in evolution generally as well as in natural selection. The three remaining chapters (omitting the final recapitulation), deal with the evidence for evolution The theory which suggested a cause of evolution is thus given the foremost place and the evidence for the existence of evolution considered last. This evidence had never been thought out and marshalled in a manner which bears any comparison with that of live! in London until 1842, when they moved to Down which was Darwin and the work would have been epoch-making had it con-Darain shome for the rest of his life. From 1846 to 1854 he was sisted of the later chapters alone. A storm of controversy arose chieft ergaged upon four monographs on the recent and fossil over the book reaching its height at the British Association at cirripede Crusiscea. Ray Suc. 1831 and 1854, Pauceontograph. Oxford in 1860 when the celebrated duel between T. H. Huxley and Bishop Wilberforce of Oxford took place. Throughout these Such after opening his note-book in 1857 he began to collect struggles Huxley was the foremost champion for evolution and facts bearing upon the formation of the breeds of domestic, for fair play to natural selection, although he never entirely acanimals and picats and quickly saw that selection was the key- | cepted the latter theory, holding that until man by his selection had made his domestic breeds sterile inter se, there was no suforganisms hving in a state of nature remained for some time a racient evidence that selection accounts for natural species which are thus separated by the barrier of sterility.

The Variation of Animals and Plants under Domestication -Probably the second in importance of Darwin's works was published in 1868, and may be looked upon as a complete account of the material condensed in the first chapter of the Origin He anally brought together an immense number of apparently disconnected sets of observations under his "provisional hypothesis of pangenesis," which assumes that every cell in the body, at every stage of growth and in maturity, is represented in each germ-cell by a gemmule. The germ-cell is only the meeting-place of genimules and the true reproductive power has in the whole of the body-cells which despatch their representatives, hence "pangenesis." There are reasons for believing that this infinitely complex conception, in which, as his letters show, he had great confidence, was forced upon Darwin in order to explain the hereditary transmission of acquired characters involved in the small proportion of Lamarckian doctrine which he incorporated If such transmission does not occur, a simpler hypothesis based on the tues of Weismann's "continuity of the germ-plasm" is sufficient to account for the facts (see HEREDITY, LAMARCKISM).

The Descent of Man and Selection in Relation to Sex (1871). both fulfilled his statement in the Origin that "light would be thrown on the origin of man and his history," and collected the evidence in support of his hypothesis of sexual selection which he had briefly described in the 1858 essay. The Expression of the Emotions (1872) offered a natural explanation of phenomena which appeared to be a difficulty in the way of the arceptance of evolution. In 1376 Darwin brought out his two previously published geological works on Volcanic Islands and South America as a single volume. The widely read Formation of Vegetable Mould through the Action of Worms appeared in 1881, and the Fertilination of Orchids in 1862. The Effects of Gross- and Self-Fertuization in the Vegetable Kingdom (1876) proved that the offspring of cross-fertilized individuals are more vigorous, as well as more numerous, than those produced by a self-fertilized parent Different Forms of Flowers on Plants of the Same Species (1877) demonstrates that each different form, although possessing both kinds of sexual organs is specially adapted to be fertilized by the pollen of mother form, and that when artificially fertilized by pollen from a plant of its own form less vigorous offspring are 1 hed n 1873 and The Power of Movemen in Pants n 880 Darwin ded on April 19 1882 and was buried in Westmaster whose on the 6th

Two daughters and five sons survived h.m. four of the latter becoming prominent in the scientific world,—Sir George Howard (b. 1843), who became professor of astronomy and experimental philosophy at Cambridge Sir Francis (b. 1843) the distinguished botanist Leonard (b. 1850) a major in the royal engineers, and afterwards well known as an economist and eugenist, and Sir Horace (1851–1928), civil engineer

Horace (1851–1928). Civil engineer

See Life and Letters of Darwin, including an autobiographical chapter, ed by his son Francis Darwin (3 vols., 1887) and More Letters (2 vols., 1993), E B Poulton, Darwin and the Theory of Natural Selection (1896) and Darwin and the Origin of Species (1999). L Hurley, Lite and Letters of T H Hurley (2 vols., 1900) and Charles Darwin (1921); V L. Kellog, Darwinian To-day (1997); J Marchant A R Wallace, Letters, etc. (2 vols., 1916) and H Ward, C. Darwin (1927). See also Hunley, T H, Wallace, A. R and Hookes, Sir Joseph.

DARWIN, ERASMUS (1731-1802) English man of science and poet was born at Elton, Nottinghamshire, Educated at Cambridge and Edinburgh, he settled in 1756 as a physician at Notingham, but moved in 1757 to Lichfield, and in 1781 to Derby, where he died suddenly on April 18, 1802. His fame as a poet rests upon his Botanic Garden, though he also wrote The Temple of Nature, or the Origin of Society (1803), and The Shrine of Nature (posthumously published). The Botanic Garden (1792, the part entitled The Loves of the Plants was published anonymously in 1789) shows a genuine scientific enthusiasm and interest in nature, but has little other poetic quality. The artificial character of the diction renders it in emotional passages stilled, and the personification is carried to excess Botanical notes are added to the poem, and its eulogies of scientific men are frequent Darwin's most important scientific work is his Zoonomia (1794-96), which contains a system of pathology, and a treatise on generation, in which he, in the words of his famous grandson, Charles Darwin, "anticipated the views and erroneous grounds of opinions of Lamarck." The essence of his views is contained in the hypothesis that through millions of ages all warm-blooded animals may have arisen from one living filament which the First Cause endowed with animality, with the power of acquiring new parts, attended with new propensities, directed by irritations. sensations, volitions and associations

His Phytologia, or the Philosophy of Agriculture and Gardening (1799) claims that plants have sensation and volition. A paper on Female Education in Boarding Schools (1797) completes the list of his works.

ROBERT WARING DARWIN (1766-1848), his third son by his first marriage, a doctor at Shrewsbury, was the father of the famous Charles Darwin; and VIOLETTA, his eldest daughter by his second marriage, was the mother of Francis Galton.

See A Seward, Memoirs of the Life of Dr. Darwin (1804). Charles Darwin, Life of Erasmus Darwin, an introduction to an essay on his works by Ernst Krouse (1879); L. Brandl, "E. Darwin's Botame Carden" in Wiener Beiträge zur englischen Philologie (1909).

DARWIN, SIR GEORGE HOWARD (1845-1912). British astronomer was born at Down, Kent, on July 9, 1845, and was the second son of Charles Darwin (q,v) He was educated at Trinity college Cambridge (second wrangler and Smith's prizeman), of which he was elected a fellow in 1868, and where he became Plumian professor of astronomy and experimental philesophy in 1883 His work on the application of harmonic analyses and prediction to oceanic tides is monumental, as is his discussion of the influence of tidal friction in determining the evolution of binary systems, with special reference to the earth and moon. In an early paper he discussed the possibility of geological changes having altered considerably the inclination of the earth's axis to the plane of its orbit, and came to a negative conclusion. These works constituted the first attempt to apply thorough dynamical analysis to cosmogony and the major problems of geological evolution. He also carried out important work on periodic orbits in the problem of three bodies, figures of equilibrium of relating wasses of fluid and the streams or the eastle crust

con ment and mountain. He was awarded the gold medal of the Royal Astronomical Society in 1892 and the Copley Medal of the Royal Society in 1911. In 1899 Darwin was made president of the Royal Astronomical Society, and of the British Association in 1905. He was made K.C.B. in 1905, and he died in Cambridge on Dec. 7, 1912.

Among his works are The Tides and Kindred Phonomena in the Solar System (1898, 3rd ed., 1911) and Scientific Papers (5 vols., Cambridge University Press, 1907-16); which has a supplementary volume edited by F. J. M. Stratton and J. Jackson, containing biographical memoirs

DARWIN GLASS: see Tektite

DAS, CHITTA RANJAN (1870-1925), Indian politician and leader of the Swaraj party in Bengal was born at Calcutta on Nov 5, 1870. His father, Bhuban Mohan Das, an attorney of the Calcutta High Court, joined the Brahmo Sainaj, and edited the Brahmo (afterwards the Bengat) Public Opinion. Chitta Ranjan was educated at the London Missionary college. Bhowanipore, and at the Presidency college. Calcutta. He was called to the bar at the Middle Temple on June 26, 1894. Joining the Calcutta har he won his reputation by his successful defence of Arabinda Ghosh in the Manicktollah bomb conspiracy case. He defended relays of young political offenders and assisted in keeping extremist papers, such as Banda Mataram, going, until they were checked by the Press Act, 1910.

In 1895 Das had published a volume of Bengali lyrics, Malancha, and two volumes of verse were issued during the World War In 1915 Das started the Bengali monthly Narayana, but his chief journalistic work was the founding and conduct of the aggressive Swarajist daily, Forward "His dominating note was hatred—and dread—of everything that savoured of the West It was the purpose of these false made that had converted

.. It was the pursuit of these false gods that had converted Bengal from a smiling land of bappiness and plenty into a salt waste over which brooded stagnation and death" (Lord Ronaldshay's Heart of Arydvarta [1925]) Yet he was sufficiently interested in the shaping of political reforms on western lines to participate in discussions leading to a joint address of Europeans and Indians to the Secretary of State and the Viceroy in Nov 1917 (see Lionel Curtis, Diarchy, 1920)

Das became an influential though not always tractable supporter of M K Gandhi in the non-cooperation movement launched in the autumn of 1918. He abandoned general practice, though he continued to defend political offenders, took to the wearing of khadar (homespun cloth) and lived in the utmost simplicity Late in 1921 the "volunteer" movement was proscribed in Bengal, as in other provinces. On Dec. 10, some days before Das was due to preside at the Indian National Congress at Ahmadabad he was arrested for issuing a public appeal for the proscribed organization, and was sentenced to six months' imprisonment. Mrs. Das. who was in thorough sympathy with her husband's views, was arrested, but by order of the governor. Lord Ronaldshay, was speedily released Das presided at the National Congress at Gaya in Dec. 1922, and endeavoured to secure revocation of previous resolutions against entering the Legislatures, suggesting obstructive tactics in place of boycott. The controversy sharply divided the non-cooperationists, but with the decline of Gandhi's influence the Das policy gained ground, and influenced the second general election (1923) under the Reforms; Das was elected to the Bengal Council by more than one constituency. In the following April Das was elected the first mayor of Calcutta

In the Bengal Legislature Das did not command a clear majority, but he was able to bring pressure both on the Independents and the Mohammedans, to whom he suggested a pact by which a substantial proportion of elective seats and public appointments would be reserved for them in the event of Swarajist success. He secured a bare majority on March 24, 1924, for refusal of the salaries of Ministers appointed provisionally by Lord Lytton. Lord Lytton's offer of a ministership to Das was refused after some hesitation. Das offered vehement opposition to the Bengal Craminal Law Amendment Ordinance (Oct. 25, 1924) subsequently embodied in a certified Act under which 110 persons, some of them associates of Das were kept in

spiraty. His refusal of office and c

of votes in the Logis

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As he here if Traume at Conference at Fundpur, easy in May that This not all the partion and a resolution was passed contener is remaind that the There can be no ball that the come tuen on well the Terrutists and the Swarajists under Das was to the fact there say weathly on the latter the the thorner. While each pull hours was expense ours, each was deriving to use ing assist he other in so has as it was useful for the attainment of decaper.

The Se man for Lean in the first Labour government. Low there, said in debia (July ar, 1914) that he was informed by ' s tigh authorary in Italia, politics that Das had time reputation or being a partirularly unright and scrugolists, principles second only to Ganchi himself in solutioners of character. Undoubtedly, : the Ischan mind was impressed by the great personal sacrifices of Das for the Swart; cause, and by his courage in act and utterance. In resource and criving power he stood high above his as- tron structes. He was skilled in swaying Bengah audiences and individuals being cupacte both of playing upon their weaknesses and appealing to what was been in them. But his vision of India ander Swara; is a conglomeration of semi-autonomous villages had no, relation to the hard facts that make contralization inevitable.

There is reason to bedeve that Das was gaining a fresh outlook, were toterent of Western ideas in the closing months of his life He was at Darjeeling in search of health when he died from heart tallure following diabetes, on June 16, 1925

Little loddwing clinetes, on june 10, 1925

Exis book. Iron for Indian (1918) gives extracts from speeches I substantial rounce of Special. (some translated from Bengali) was I published in Calcutta 1918. The Huy to Sugar, (1923) gives the speeches made during a tour in southern India, and expounding, according to the prinatory note, the whole of Desabandhus philosophy of Indian Nationalism. This publiciphy is discussed with punetrating insight in Lord Ronaldshay's books. India. A Bird seepe View (1902). See also Life and Vera (1934) and The Heart of Arravaria (1925). See also Life and Trmes of C. R. Das by P. C. Ray, 1923

DASEHRA (Drssera), the "ten days" (or nine nights) festival of the modern Hindus, also called in Bengal the Durga-puja. It cerebrated the close of the ramy season and the opening of that for warlike activities; but is now observed merely us a festival.

DASENT, SIR GEORGE WEBBE (1817-1896), English writer, was born in S: Vincent, West Indies, and educated at Westminster school, King's College, and Oxford. In 1840 he was appearted to a diplomatic post in Stockholm. Here he met Jacob Grizzm, and at his suggestion first interested himself in Scandieaven literature and mythology Returning to England in 1845, he became assistant editor of The Times under Delane, whose sister he married. In 1853 he was appointed professor of English literature and modern instory at King's College, London In 1801-62 he visited Iceland. In 1870 he was appointed a civil service commissioner and resigned his post on The Times. He was knighted in 1876, and retired from the public service in 1892 He published, besides other translations, The Story of Burnt Nyai, from the Icelandic of the Nyals Saga (1861), and Gisli the Oution (1856).

See Arthur Irwin Dasent the Life of Delane (1908).

DASHKOV, CATHERINA ROMANOVNA VOR-ONTSOY, PRESCRES (1744-1810). Russian litterateur, was the theri daughter of Count Roman Vorontsov. (For the family see Voron 7504.) She studied mathematics at the University of Moscow, and became one of the leaders of the party that attached stself to the grand duchess (afterwards empress) Catherine. Before she was 16 she married Prince Mikhail Dashkov and went to reside with him at Moscow. In 1762 she was at St. Petersburg (Lemagrad) and took a leading part, according to her own account the leading part, in the coup d'état by which Catherine was raised to the throne (See Catherine II) Another course of events would probably have resulted in the elevation of the Princess Dashkov's elder sister. Elizabeth, who was the emperor s mistress, and in whose favour he made no secret of his intention to depose Catherine. Her relations with the new empress were not cordial

e seca d the me deap and different or Diderot c.a... she corresponded with Gatrick, Dr. Blair and Principal Robertson. In 1782 she returned to the Russian capirai where she was appointed directeur of the Academy of Arts and Sciences and in 1784 the first president of the Russian Acaderry founded at her suggestion. She projected the Russian dictionary of the Academy arranged its plan and executed a part of the work herself. She edited a monthly magazine, and wrote at least two dramatic works. The Marriage of Famon, and a comedy entitled Insserbed Shortly before Catherine's death she retired from court. On the accession of the emperor Paul in 1796 she was deprived of all her offices, and ordered to retire to a village in the government of Novgorod "to meditate on the events of 1752 But she passed the closing years of her life on her estate near Moscow where she died on Jan. 4, 1810

The Memoirs of the Princess Dashkoff written by herself were composed in English and published in London (2 vols., 1840). They were edited by Mrs. W. Bradford, who, as Miss Wilmot, had resided with the princess between 1803 and 1808, and had suggested their prepara-

DASS, PETTER (1647-1708), the "father" of modern Norwegian poetry, was the son of a Scottish merchant, Peter Dundas settled in Bergen. He was born on the island of Nord Hero, on the north coast of Norway, studied at Copenhagen, and was ordained priest in 1672. In 1689 he received the important hving of Alstahous in the north of Norway, with jurisdiction over the neighbouring districts. His writings passed in ms from hand to hand, and few of them were printed in his lifetime Nordlands Trompet (The Trumpet of Nordland), his greatest and most famous poem, was not published till 1739; Den norska Dale-Vise (The Norwegian Song of the Valley) appeared in 1696, the Aundelig Tidsfordriv (Spiritual Pastime), a volume of sacred poetry, was published in 1711. The Trumpet of Nordland remains as fresh as ever in the memories of the inhabitants of the north of Norway; boatmen, peasants, priests will alike repeat long extracts from it at the slightest notice, and its popularity is unbounded It is a rhyming description of the province of Nordland, its natural features, its trades, its advantages and its drawbacks, given in dancing verse of the most breathless kind, and full of humour, fancy, wit and quaint learning

The collected writings of Dass were edited (3 vols, Christiania, 1873-77) by Dr. A. E Ersksen

DASYURE, a name for any member of the family Dasyundce (see Marsupialia). The name is better restricted to animals of the typical genus Dasyurus. These are mostly inhabitants of the Australian continent and Tasmania. They hide themselves in the daytime in hotes among rocks or in hollow trees, but prowl about at night in search of the small mammals and birds which constitute their prey In arboreal species there are transversely striated pads on the feet; these are absent in terrestrial forms such as the common dasyure (D viverrmus). The ursine dasyure (Surcophilus ursinus), often called the "Tasmanian Devil," stitutes a distinct genus. In size it may be compared to an English badger The general colour of the fur is black tinged with brown, with white patches on the neck, shoulders, rump and chest It is a burrowing animal, nocturnal and carnivorous, and commits great depredations on the sheepyards and poultry-lofts of the mhabitants.

DATE-LINE: see International Date-Line

DATE PALM. The dates of commerce are the fruit of a species of palm, Phoenix dactylifera, a tree which ranges from the Canary Islands through Northern Africa and the south-east of Asia to India For an illustration of this tree see PALMS It has been cultivated and much prized throughout most of these regions from the remotest antiquity. In Arabia it is the chief source of national wealth, and its fruit forms the staple article of food in the country. The tree has also been introduced along the Mediterranean shores of Europe; but as its fruit does not ripen so far north, the European plants are only used to supply leaves for the festival of Palm Sunday among Christians, and for the celebration of the Passover by Jews. It was introduced into the New World and she set out in 1758 on an extended tour through Europe. In thy early Spanish missionaries, and is now cultivated in the dry

date palm is a beautiful tree, growing to a height of from 60 to So tt, and its stem, which is strongly marked with old leaf-scars, terminates in a crown of graceful, shining, pinnate leaves. The flowers spring in branching spadices from the axis of the leaves, and as the trees are only of one sex it is necessary in coltivation to fertilize the female flowers by artificial means. The fruit is oblong, fleshy and contains one very hard seed which is deeply turrowed on the inside. The fruit varies much in size, colour and quanty under cultivation Regarding this fruit, W G Palgrave (Central and Eastern Arabia) remarked: "Those who, like most Europeans at home, only know the date from the dried specimens of that fruit shown beneath a label in shop-windows, can hardly imagine how dehcious it is when eaten fresh and in Central Arabia" In the cases of Sahara, and in other parts of Northern Africa dates are pounded and pressed into a cake for food. The dried fruit used for dessert in European countries contains more than half its weight of sugar, about 6% of albumen, and 12% of gummy matter. All parts of the date palm yield valuable economic products Its trunk furnishes tumber for house-building and furniture, the leaves supply thatch; their footstalks are used as fuel, and also yield a fibre for cordage See PALM.

Date sugar is a valuable commercial product of the East Indies, optained from the sap or toddy of Phoenix sylvestris, the toddy palm, a tree so closely allied to the date palm that it has been supposed to be the parent stock of all the cultivated varieties The juice, when not boiled down to form sugar, is either drunk fresh, or fermented and distilled to form arrack. Date palm meal is obtained from the stem of a small species, Phoenix farinifera, growing in the hill country of southern India

For further details see Sir G Watt, Dictionary of the Economic Products of India (1892), and The Date Pulm, U.S. Department of Agriculture Bureau of Plant Industry, Bulletin No. 53 (W. T. Swingle), 1904

DATIA, an Indian state in the Bundelkhand agency It lies in the extreme north-west of Bundelkhand, near Gwalior, and is surrounded on all sides by other states of Central India, except on the east where it meets the United Provinces The state came under the British government after the treaty of Bassein in 1302, and was settled with the present family by treaties in 1804 and 1818 Area, 911 sq m; pop (1921) 148.659 The chief, whose title is maharaja, is a Rajput of the Bundela clan, being descended from a younger son of a former chief of Orchha; his salute is 15 guns The town of Datia (pop 15 221 in 1921) is surrounded by a stone wall, enclosing handsome palaces, with gardens; the palace of Bir Singh Deo, of the 17th century, is "one of the finest examples of Hindu domestic architecture in India" and is now untenanted

DATIVE, the name, in grammar, of the case of the "indirect object," the person or thing to or for whom or which anything is given or done (Lat dativus, giving or given, from dare, to give). In law, the word signifies something, such as an office, which may be disposed of at will In Scots law the term signifies "appointed or granted by a court " In Roman law, a tutor was either dativus, if expressly nominated in a testament, or optivus, if a power of selection was given

DATO, EDUARDO (1856-1921), Spanish politician, was born at Corunna on Aug 12, 1856 He graduated in law at Madrid university and was elected deputy in 1884. Under-Secretary for the Home Department in 1892, he became minister for the department in 1899, and promoted bills regarding accidents, insurance and women's labour. In Dec 1902 he became minister of justice, in 1907 mayor of Madrid and then president of the Chamber He belonged to the "Liberal-Conservative" variety of the Conservative party, which his friend and political chief Silvela had represented, and after Silvela's death continued to maintain this attitude. When in 1913 Señor Maura refused to take power, Señor Dato dissented from his chief, carrying with him the majority of his party, which elected him as its leader. When the World War broke out, he was responsible for Spain's declaration of neutrality. Becoming prime minister again in June 1917, he faced with determination the revolutionary outbreaks and dis- member of the senate. He died in Paris on Jan. 1 1800

districts of the south-western United States and in Mexico. The furbances of that summer. He resigned in October, but in 1920 resumed office, and while prime minister was murdered in Madrid on March 8, 1921

DATOLITE, a mineral species consisting of basic calcium and boron orthosilicate, Ca(BOH)SiO. It is white or colourless, often with a greenish tinge, and may be either transparent or opaque, it usually occurs as well-developed monochiuc crystals bounded by numerous bright faces, many of which often have a more or less pentagonal outline, but also as masses with a granular to compact texture, the fractured surfaces having the appearance of porcelain when the mineral is compact. Hardness 5-51; specanc gravity 3 o.

Datolite is a mineral of secondary origin, and in its mode of occurrence it resembles the zeokies, being found with them in the amygdaloidal cavities of basic igneous rocks such as basalt, it is also found in gneiss and serpentine, and in metalliferous veins and in beds of iron ore. At Arendal in Norway, the original locality for both the crystallized and botryoidal, or fibrous variety (known also as botryolite), it is found in a bed of magnetite. In amygdaloidal basaltic rocks it is found at Bishopton in Renfrewshire and near Edinburgh, and as excellent crystallized specimens at several localities in the United States.

DATUM, hterally "that which is given" The term is commonly used for anything that is regarded as beyond question or that is allowed to be assumed or taken for granted (though it may be only for the sake of argument) in connection with any problem involving further construction or interpretation or inference Usually there is no difficulty in distinguishing the data of a problem from the further constructions or inferences Sometimes. however, complications arise. It is e.g., a common tendency to regard all perceptions as data (or facts, as they are also called) But as is obvious in cases of illusion and hallucination, even comparatively simple percepts (like the recognition of an object or location of a sound) involve mental constructions which may be wrong And so even in the case of percepts it becomes important to distinguish much more carefully than is commonly done the sense-data (such as mere sensations of sight or sound) from the mental constructions immediately and unwittingly put upon them.

DATURA: see Stramonium

DAUB, KARL (1765-1835), German Protestant theologian, was born at Cassel on March 20, 1765 He studied at Marburg, and in 1795 became professor ordinarius of theology at Heidelberg, where he died on Nov 22, 1836 Daub sought to bring about a speculative reconstruction of orthodox dogma, but he unfortunately ignored historical criticism His Lehrbuch der Kutechetik (1801) was written under the spell of Kant, his Theologumena (1806), his Einleitung in das Studium der christl Dogmatik (1810), and his Judas Ischarioth (2 vols, 1816), in the spirit of Schelling, while Die dogmatische Theologie jetziger Zeit (1833), and Vorlesungen uber die Prolegomena zur Dogmatik (1839) are Hegelian in principle.

See Rosenkranz, Erinnerungen an Karl Daub (1837); F Lichtenberger, History of German Theology (1889), O Pfleiderer, Development of Theology (1890).

DAUBENTON, LOUIS-JEAN-MARIE (1716-1800), French naturalist, was born at Montbar (Côte d'Or). In 1741 he graduated in medicine at Reims, and returned to his native town with the intention of practising, but Buffon invited him to provide the anatomical descriptions for his treatise on natural history His details of the dissection of 182 species of quadrupeds in Buffon's work brought him great reputation; but a feeling of jealousy induced Buffon to dispense with his services in the remainder of the treatise Daubenton now occupied himself with zoological descriptions and dissections, the comparative anatomy of recent and fossil animals, vegetable physiology, mineralogy, experiments m agriculture, and the introduction of the merino sheep into France In 1744 he was appointed keeper and demonstrator of the cabinet of natural history in Paris, and from 1775 lectured on natural history in the college of medicine, and in 1783 on rural economy at the Alfort school. He was also professor of mineralogy at the Jardin du Roi. In Dec. 1799 he was appointed a

DAUBENY, CHARLES GILES 12795-12.7. English sugness perm it Similar Georgestersking in Ten in 1794 stated me have. He also mates and them stry 1.822-55, and or Longry (1514-65) as Unived in a carmed out numerous expenments an the event of charges in soil light etc. on plants. He aise made in emension of the foliances of Directed the cesults of which are empodied in his Description of Acute and hateurt l'accorre etabé, and ed 1848. He died at Onford on Dec 11 1607

DAUBIGNY, CHARLES FRANÇOIS (:517-1975) Frence connected tunter, allied in ser tall 15 25 with the Barbison her was form in Paris, on their is, into his spent much time as i a this it Varroadots a volume on the Cise to the north-west of Puris Unutigay was the son of an artist, and most of his family were painters. He succeed in Italy and painted for nearly two years, he then returned to faris not to leave it again until, in 1505 he tock a house at Auters on the Oise. By 1837 Daubigny ! had become famous as a river and landscape painter although he had been devoting himself as well to arawing in black-and-white to etching wood engraving and hthography. In 1855 his picture 'Lock at Optevez,' in the Louvre, was purchased by the State. He visited Lordon more than once and spent some time in Heliand He died in Paris on Feb 19 1378. Daubigny is chiefly preferred in his riverside pictures, of which he painted a great number but . although there are two landscapes by Daubigry in the Louvre, neither is a river view. They are for that reason not so typical as many of his smaller Oise and Seine pictures. Among his most ambitious canvases are "Springtime" (1857), in the Louvre "Borde de L. Cure Morvan" (1864); "Villerville sur Mer" (1864); "Moonlight" (1868), "Andresy sur Oise" (1868), and Return of the Flock-Moorlight (10.3)
His followers and pupils included his son Karl (who painted

so well that his works are occasionally mistaken for those of his failer, though in few cases do they equal his father's mastery), Cuchnet, Delpy and Damove. The works of Daubigny are, like Corut's to be found in many modern collections.

Ser Free Henriet. C Dandigny et son oeuwre (1873); Albert Wolff. La Capitale de fari: Ch Fromoss Daubegoy (1881); J. Clarette. Peintres et sculpteurs contemporains. Daubegoy (1892); D Croal Thomasn. The Barbaian School of Painters (1860); J. W. Mollett. Doubigny (1890).

DAUBLER, THEODORE (1876-), German writer. was born in Trieste on Aug 17, 1876 son of a merchant family. With the appearance of Das Nordboht (1910) Daubler took his place at the head of the German expressionist movement. Das Norshield is a massive religious allegory showing the author's l own path from agnosticism to mystic religion, under an epichereie disguise. Other characteristic poetical works are Der Sternhelle Weg (1913), Das Sternenkind (1916) and Die Treppe sum Nordhicht (1920), Attische Sonette (1924); prose works, Mit suberner Sichal (1021). Hir wollen nicht verweden (autobiographical fragment, 1916). Der neue Standpunkt (artistic criticism 19161; Luciderum in arte munica (musical criticism, 1917); Ein Kempf um die moderne Kunst. Daubler was remarkably successful in giving his thought clear and often melodious expression, but his original work possibly owing to its Latin forms, was slow in achieving wide populanty in Germany His influence as a critic of expressionist music and poetry was, however, very great. In 1928 he was elected a member of the German Academy of Letters,

DAUDET, ALPHONSE (1640-1897), French novelist, was born at Nimes on May 13, 1840, the son of a silk manufacturer. The lad, amid much irrancy, had hat a depressing boyhood. In 1856 he left Lyons, where his schooldays had been mainly spent, and began life as an usher at Alais, in the south. The position proved to be incolerable. On Nov 1, 1857, he abandoned teaching, and took refuge with his prother Emest (q.n.) in Paris. Alphonse wrote poems, shortly collected into a small volume Les Amourenses (1858), which met with a fair reception, obtained employment on the Pigaro, and wrote two or three plays. The duc de founded in 1899, afterwards a Moray appointed him to be one of his secretaries a post which 1908. he held till Morry's death in 1865.

In 1366 appeared Lettres de mon moulen. The first of his longer broks, Le petit chose (1868), the pathetic story of his own carice years, is told with much grace and pathos. The year 1872 produced the famous Asensures prodegieuses de Tarvarm de Tarnion, and the three-act piece L'Ariesienne. Fromont jeune et Rister aine (1851) struck a note, not new certainly in English literature, Lat comparatively new in French. Here was a writer who possessed the gift of laughter and tears a writer not only sensible to parhos and sorrow, but also to moral beauty Jack, the story of an idegitimate child, a martyr to his mother's seifishness, followed in 1876 Other novels followed Le Nabab (1877) Les Rois en exil (1879), Numa Roumestan (1881), Sapho (1884) and L'Immortel (1888) Daudet then wrote his own reminiscences In Trente ans de Paris (1287, and Souvenirs d'un homme de lettres (1383). These, with the three Tartarins-Tartarin the mighty hunter, Tartarin the mountaineer, Tartarin the colonistand the admirable short stories, written for the most part before he had acquired fame and fortune, constitute his life work

Though Daudet defended himself from the charge of imitating Dickens it is difficult altogether to believe that so many similararies of spirit and manner were quite unsought. What, however, was purely his own was his style. It is a style that may rightly be called "impressionist," full of light and colour, not descriptive after the old fashion, but flashing its intended effect by a masterly juxtaposition of words that are tike pigments. Not does it convey. tike the style of the Goncourts, to whose work it owed something a constant feeling of effort. It is full of felicity and charm-un charmeur Zola has called him An intimate friend of Egmond de Goncourt (who died in his house), of Flaubert, of Zola, Daudet belonged essentially to the naturalist school of fiction. His own experiences, his surroundings, the men with whom he had been brought into contact, various persons who had played a part, more or less public, in Paris life—all passed into his art. But he vivilied the material supplied by his memory. His world has the great girt of life. L'Immo-tel is a bitter attack on the French Academy, to which august body Daudet never belonged.

Daudet wrote some charming stories for children, among which may be mentioned La Belle Nivernaise, the story of an old boat and her crew His married life-he married in 1867 Julia Allard-seems to have been singularly happy. There was perfect intellectual harmony, and Madame Daudet herself is known by her Impressions de nature et d'art (1879), L'Enfance d'une Parissenne (1883), and by some literary studies written under the pseudonym of Karl Steen. In his later years Daudet suffered from insomnia, failure of health and consequent use of chloral He died in Paris on Dec. 17, 1897.

The story of Daudet's earlier years is told in his brother Ernest Daudet's Mon frere et moi. There is a good deal of autobiographical detail in Daudet's Trente and de Paris and Souvenirs d'un homme de lettres, and also scattered in his other books. The references to him in the Journal des Concourt are numerous. See also L. A. Daudet, is the Journal des Goncourt are numerous See also L A. Daudet, Alphonse Doudet (1898), and biographical and critical essays by R H. Sherard (1894); by A Gerstmann (1883); by B Diederich (1900), by A Hermant (1903), and a bibliography by J Brivois (1895); also The Works of Alphonse Daudet, franslated by L Ensor H. Frith, E. Bartow (1902, etc.) Criticism of Daudet is also to be found in F Brinetiere, Le Roman naturaliste (new ed., 1897); J Lemaître, Les Contemporans (vols ii and v.); G Pellissier, Le Mouvement littéraire au XIXII siècle (1890); A. Symons, Studies in Prose and Verse (1904). Prose and Verse (1904).

DAUDET, LÉON (1867-), French man of letters and politician, born in Paris Nov. 16, 1867, son of Alphonse Daudet (q.t.) He married a granddaughter of Victor Hugo, whom he subsequently divorced. His violent opposition to the Government permitted him to display his talents as a controversialist. He wrote for Le Gaulois and Le Figuro, and also for La Libre Parole, a violently anti-semitic paper, in the columns of which he was able to give full vent to his fiery temperament. Influenced by the writer, Charles Maurras, he adopted the doctrines of neo-royalism At the time of the Dreyfus case, through the generosity of Madame de Loynes, the royalist paper, Action P-mouse was as a daily and force of his literary style, the wealth of his

often combined to make him read and eare for o yea's He was elic ed to the Chamber as a deputy tor Par's in 1919 but as defeated in 19.4 Whithe establishmen o peace hindunce decined in the summer of 1925 the death of his young son. Philippe, caused a great sensation. The finding of the judicial enquiry was that he had committed suicide but Leon Daudet conducted a long and violent campaign to prove that he had in fact been murdered. He accused the chauffeur, in whose taxi his son had been found dead from a bullet wound, of complicity. The chauffeur prosecuted him, and Daudet was condemned to prison and ordered to pay heavy compensation. He was imprisoned in the Santé at Paris, from which he was rescued in 1927 by a ruse of some royalists, who made the governor of the prison believe he had been pardoned, Daudet fled to Belgium

The best of Daudet's novels are: L'astre nour (1893); Les Morticoles (1894). Le voyage de Shakespeare and Sylla et son destin (1922). Among his philosophical and controversial works may be mentioned L'Hérédo (1916); Le monde des mages (1919), L'avant-guerre (1913): Le stupide XIX^e siècle (1922), and Souvenirs (1914).

DAUGAVPILS (Dvinsk), a town of Latvia in 55° 53' N 26° 32' E on the Daugava (Western Dwina). Pop (1926) 40,640 Formerly a Russian fortress, it is now the training centre for the Lettish army, and has some timber industries. The Livonian Knights of the Sword founded a fort 12 m further up the river, which was removed to its present site by Stephen Bathori, King of Poland, in 1582. Poland Sweden and Russia alternately occupied this strategic border fort until the partition of Poland gave it to Russia in 1772. The French occupied it m 1812 and it was a centre of strife in 1914–16, its population and industry being much diminished as a result.

DAULATABAD, hill-fortress, Hyderabad State, India, about 10 m. N.W. of the city of Aurangabad. The former city of Daulatabad (Deogrii) has shrunk to a village though its magnificent fortress and remains of public buildings survive. The fortress, on a contral rock, crowns a bill rising steeply from the plain to a height of some 600 ft. The outer wall, 23 m. in circumference, once enclosed the ancient city of Deogiri (Devagiri), and between this and the base of the upper fort are three lines of defences. The only access to the summit is by a narrow bridge, with passage for two men abreast, and a long gallery, excavated in the rock, with a steep stair midway, the top of which is covered by a grating destined in time of war to form the hearth of a huge fire kept burning by the garrison above The remarkable Chand Minar in Daulatabad, a tower are it, high and originally covered with Persian glazed tiles, was erected in 1445 by Ala-ud-din Bahmani to commemorate his capture of the fort. The Chini Mahal, or China Palace, is the rum of a building in which Abul Hasan, the last of the Kuth Shahi kings of Golconda, was imprisoned by Aurangzeb in

Deogiri is said to have been founded c. AD 1187 by Bhillama I. who renounced his allegionce to the Chalukyas and established the power of the Yadava dynasty in the west. In 1294 the fort was captured by Ala-ud-din Khilji, and the rajas were reduced to pay tribute. The tribute falling into arrear, Deogui was again occupied by the Mohammedans, and in 1318 the last raja, Harpal, was flayed alive Deogiri now became an important base for Muslim expeditions southwards, and in 1339 Mohammed ben Tughlak Shah made it his capital as Daulatabad ("Abode of Prosperity"), and made arrangements for transferring to it the population of Delhi, but troubles summoned him north; during his absence the Muslim governors of the Deccan revolted, and Daulatahad itself was taken by Zafar Khan, governor of Gulbarga. Later it fell into the bands successively of the Nizam Shahis, the emperor Akbar, the Shah of Ahmednagar, the Nizam Shahi usurper, Malik Amber, Shah Jehan, the Mogul emperor and the Nizam of Hyderahad, who took it after the death of Aurangzeb. Its glory, however, had already decayed owing to the removal of the seat of government by the organism to American

DAUMER, GLORG FRIEDRICH (1800-1875), German writer on religion of the second of the se

Erla cen and Le pz g and forsaking his early pietism, violently opposed Christianity especially in his Die Geheimnisse des christiachen Altertums (1847). After the publication of Religion des neuen Weltalters 3 vols (1850) Daumer approached Moham medanism in his poems. Mahomet (1848) and Liederbluten der Hafis (1846-51). He became a Catholic in 1859 and wrote Das Wunder (1874) and Kaspar Hauser, sein Wesen, seine Unschild (1873).

DAUMET, PIERRE JÉRÔME HONORÉ (1826-1911). French architert, member of the Académie des Beaux-Arts, was born on Oct. 23 1826, in Paris. He entered the École des Beaux-Arts in 1846, and in 1855 was awarded the Prix de Rome. In 1861 he was sent on an archaeological expedition to Macedonia and published, in collaboration with Léon Henzey an important work on the researches in Thessaly, Thrace and Illyria. He was entrusted with the restoration of many monuments of French architecture, in particular the castle of Chantilly, the Palais de Justice, Paris and the theatre at Orange. In Nov. 1884 Daumet undertook the construction of the Eglise du Sacré-Coeur on Montmartre, which had already been begun by the architect Abbadie, but the following year he abandoned the task, after a dispute with the ecclesiastical authorities. He died in Paris on Dec. 15, 1911

DAUMIER, HONORE (1808-1879), French caricaturist and painter was born at Marseilles on Feb 20, 1808, and died at Valmondois on Feb 11, 1879. Daumier started his artistic career by producing plates for music publishers and illustrations for advertisements; these were followed by anonymous work for publishers, in which he followed the style of Charlet and displayed considerable enthusiasm for the Napoleonic legend. When, in the reign of Louis Philippe. Philipon launched the comic journal, La Caricature, Daumier joined its staff, which included Devena, Raifet and Grandville, and started upon his pictorial campaign of scathing sature upon the foibles of the bourgeoiste, the corruption of the law and the incompetence of a blundering Government. His caricature of the king as "Gargantua" led to imprisonment for six months at Ste. Pélagie in 1832. The publication of La Cancature was discontinued soon after, but Philipon provided a new field for Daumier's activity when he founded the Charwan. For this journal Daumier produced his famous social caricatures in which bourgeois society is held up to ridicule in the figure of Robert Macaire, the hero of a then popular melodrama. Another series, "L'histoire ancienne," was directed against the pseudoclassicism which held the art of the period in fetters. In 1848 Daumier embarked again on his political campaign still in the service of Charwari, which he left in 1860 and rejoined in 1864. In spite of his prodigious activity in the field of caricature—the list of Daumier's hthographed plates compiled in 1904 numbers no fewer than 3,958—he found time for flight in the higher sphere of painting. Except for the searching truthfulness of his vision and the powerful directness of his brushwork, it would be difficult to recognize the creator of "Robert Macaire," of "Les Bas bleus," "Les Bohemiens de Paris," and the "Masques," in the paintings of "Christ and His Apostles" at the Ryks Museum in Amsterdam, or in his "Good Samanitan," "Don Quixote and Sancho Panza," "Christ Mocked," or even in the sketches in the Ionides Collection at South Kensington. But as a painter, Daumier, one of the pioneers of naturalism, was before his time, and had little success until in 1878, a year before his death, when M. Durand-Ruel collected his works for exhibition at his galleries and demonstrated the full range of the genius of the man who has been well called the Michelangelo of caricature. At the time of this exhibition Daumier, totally blind, was living in a cottage at Valmondois which was placed at his disposal by Corot, and where he breathed his last in 1879. An important exhibition of his works was held at the École des Beaux-Arts in 1900.

Bibliography — See Arsène Alexandre, Honoré Daumer, Phomme et son senure (1800). Gustave Geffroy, Daumer; Henri Frantz and Octave Uzanne, Doumer and Gavarra (The Studio, 1904): H. Marcel Honoré Daumier (1007): A. Ruemann, Da als Illustrator (Manich 1999) and M. T. Sedler Dimmer the Man and the Artist (1924)

DAUN (DHAUN), LEOPOLD JOSEF, COTAL VON Tost-on the state of Tolds Alert in held marshal was born a Victor of the control some of the Turks office and another the War of the Australia Surversion i madeato. Esc mas present at Chataers and Prague and all the he areas cause of Koetennators carry in the victerrite Dates, carpour of the Field Marsha Tream who surview. Kies no les on that thought equily highly of Dann . and on restriction who the restricted of the Adelian army when is essent to a the French to would fine enck the Civil He has maker are communed in the latter of Habenfradhere and Sour and a the same year titue, was prompted to the rank of Reservaçõestar - litter this his served in the Low Counciles and was present of the have of Va. Maria Therese made him com-mandant of Vierna and a knight of the Golden Fleece, and in 1774 he was car ited to the rank of field murshal

During the interval of place that proceded the Seven Years Was he been the recommission of the Austrian arms. He was not actively employed in the first company to or the war but in 1757 he communded the army raised to reverse Prague. On June : 13. 1757 Daim defeated Frederica for the first time in his career rathe resperately fought that le ci Kolin 'our . The main of the relieving army wath the forces of Prince Charles at Prague reduced Daug to the position of second in command and as such he took part in the pursuit of the Prussians and the victory of Breslau. Frederick now suppeared and won the most bridans victory of the age at Leuthen. Dean was not held accountat le for he disaster, and when Proce Churles resigned his command Down was appointed in his place. With the campaign of 1755 began the war of manceuvre in which Daun if he mused through over-ceution, many opportunities of croshing the Prissians, at least maintained a steady and cool resistance to the fiery strategy of Frederick. In 1758 Major-General Loudon, acting | under Laun's instructions, forced the king to raise the siege of Cimutz and later in the same year Daun himself surprised Frederick w Hochkirch and inflicted a severe defeat upon him (Oct 14: On Nov 20-21, 1756 he surrounded the entire corps of General Finck at Maxer, forcing the Prussians to surrender These successes were counterbalanced in the following year by the defeat of Loudon at Liegnetz, which was attributed to the dilatormess of Daun, and Daun's own defeat in the great battle , of Torgau (q 1.) In this engagement Daun was severely wounded

He continued to command until the end of the war, and afterwards worked with the greatest energy at the reorganization of [the imperial forces. In 1762 he had been appointed president of] the Hofkregs-at. He died on Feb. 5, 1766

See Der deutsche Fabeus Cancistor, oder Leben w Thater S. E des H. Leopold Ren lesgenen v Dheun K.K.F.M (Frankfort and Leipzig, 1759-60), and works dealing with the wars of the period.

DAUNOU, PIERRE CLAUDE FRANCOIS (1761-1840). French statesman and historian, born at Boulogne-sur-Mer on Aug 13, 1751, was educated in the school of the Oratorians there and joined the order in Paris in 1777. He was professor in various remmaries from 1780 till 1787, when he was ordained priest. Elected to the Convention by Pas-de-Calais, he associated bimself with the Grondists, but strongly opposed the death sen-! tente on the king. He took inthe part in the struggle against the Mountain, but was involved in the overthrow of his friends, and was imprisoned for a year. In December 1794 he returned to the Convention and was the principal author of the Constitution of the year III. It seems to have been due to his Girondust ideas that the Ancients were given the right of convoking the corps legislatif surside Pans, an expedient which made possible Napoleon's coup Peiet of the 18th and 19th Brumaire. The creation of the Institate was also due to Daunou, who drew up the plan for its organization. His energy was largely responsible for the suppression of the nurnist insurrection of the 13th Vendémiaire, and the important place he occupied at the beginning of the Directory is mdicated by the fact that he was elected by twenty-seven departits first president. He had himself set the age qualification of the left to his house. In 14 8 J

directors at forty and thus debarred himself as candidate, as be was only thirty-four. The direction of affairs having passed into the hange of Talleyrand and his associates. Daun to turned once more to inercture, but in 1793 he was sent to Rome to organize the regulate there and again almost against his will, he lent his and to Napoleon in the preparation of the Constitution of the year VIII He supported Napoleon's policy in the controversy with the Vatican in his Sur la piassance temporelle du Pape (1809) Still. he took little part in the new regime, with which at heart he had no sympathy and turned more and more to literature. At the Restoration he was deprived of the post of archivist of the Em pire which he had held from 1807, but from 1819 to 1830 (when he again became archivist of the kingdom) he held the chair of 'Lorory and ethics at the Collège de France. In 1839 he was made a peer. He died in 1840

Dannou's lectures at the Collège de France, collected and pubhaced after his death, fill twenty volumes (Cours d'études historiques, 1842-1848) They treat principally of the criticism of sources and the proper method of writing history, and occupy an important place in the evolution of the scientific study of history in France Personally Daunou was reserved and somewhat austere, preserving in his babits a strange mixture of bourgeois and monk His indefatigable work as archivist in the time when Napoleon was transferring so many treasures to Paris is not his least claim to the gratitude of scholars.

See Mignet. Notice historique sur la vie et les travaux de Dounou (1843), Taillandier, Documents hographiques sur Daunou (1847), including a full list of his works, Sainte-Beuve, Daunou in his Portraits Contemporains, t. iii. (unfavourable and somewhat untair)

DAUPHIN, an ancient feudal title in France borne only by the counts and dauphins of Vienne the dauphins of Auvergne, and from 1364 by the eldest son of the king of France The origin of this curious title is obscure, but it now seems clear that it was in the first instance a proper name. It was borne by Guigo or Guigue IV. (d 1142) count of Albon and Grenoble, as an additional name, during the lifetime of his father and was also adopted by his son Guigue V Beatrice daughter and heiress of Guigue C. whose second husband was Hugh III, duke of Burgundy, bestowed the name on their son André, to recall his descent from the ancient counts of Albon His successors Guigue VI (d. 1270) and John I (d. 1282) call themselves sometimes Delphinus, sometimes De.phini, the name being obviously treated as a patronymic, and in the latter form it was borne by the sons of the reigning "dauphin" But even under Guigue VI foreigners had begun to confuse the name with a title of dignity, an imperial diploma of 1248 describing Guigue as "Guigo Dalphinus Viennensis "

It was not until the marriage of Anne, herress of John I, with Humbert, Lord of La Tour du Pin that "dauphin" became definitely established as a title. Humbert not only assumed the name of Delphinus, but styled himself regularly Dauphin of the Viennois (Dalphinus Viennensis), and in a treaty concluded in 1285 between Humbert and Robert, duke of Burgundy, the word delphinatus (Dauphiné) appears for the first time as a synonym for comutatus (county). In 1349 Humbert II , the last of his race, sold Dauphine to Charles of Valors who when he became king of France in 1364 transferred it to his eldest son. From that time the eldest sons of the kings of France were always either actual or titular dauphins of the Viennois

The eldest son of the French king was sometimes called "the king dauphin" (le roy daulphin), to distinguish him from the dauphin of Auvergne, who was known, since Auvergne became an appanage of the royal house, as "the prince dauphin" The dauphinate of Auvergne, which is to be distinguished from the county, dates from 1155, when William VII, count of Auvergne, was deposed by his uncle Wilsiam VIII. Wilham VII had married a daughter of Guigue IV Dauphin, after whom their son was named Dauphin (Delphimus) The name continued, as in Viennois as a patronymic, and was not used as a title until 1281, when Robert II., count of Clermont, in his will, styles himself for the first time ments as member of the Council of Five Hundred, and became Dauphin of Auvergne for the portion of the county of Auvergne herress of the dauphin Béraud

I'I marr ed Louis de Bourbon count of Mortpen er a 1486) nus bringing he duph na e in o he roya house of France It was annexed to the Cown n 1693

See A. P.udhomme. 'De l'origme et du sens des mots dauphin et dauphine' in Bibhothèque de l'École des Charles, iv. cn. 1893

DAUPHINE, one of the old provinces (the name being still in current use in the country) of pre-Revolutionary France, in the south-east portion of France, between Provence and Savoy, since 1700 it forms the departments of the Isère, the Drôme and the Hautes Alpes

After the death of the last king of Burgundy, Rudolf III, in 1032 the territories known later as Dauphine (as part of his realm) reverted to the far-distant emperor. Much confusion 101lowed, out of which the counts of Albon (between Valence and Vienne) gradually came to the front. The first dynasty ended in 1162 with Guigue V, whose daughter and heiress, Beatrice, carried the possessions of her house to her husband, Hugh III, dake of Burgundy Their son, André, continued the race, this second dynasty making many territorial acquisitions, among them (by marriage) the Embrunais and the Gapençais in 1232 In 1282 the second dynasty ended in another heiress, Anna, who carried all to her husband, Humbert, loss of La Tour du Pin (between Lyons and Grenoble). The title of the chief of the house was Count (later Dauphin) of the Viennois, not of Dauphiné. (For the origin of the terms Dauphin and Dauphine see Dauphin) Humbert II (1333-40), grandson of the heiress Anna, was the last independent Dauphin, selling his dominions in 1340 to Charles of Valois, who on his accession to the throne of France as Charles V hestowed Dauphine on his eldest son, and the title was borne by all succeeding eldest sons of the kings of France. In 1422 the Diois and the Valentinois, by the will of the last count, passed to the eldest son of Charles VI, and in 1424 were annexed to the Dauphiné Louis (1440-61), later Louis XI of France, was the last Dauphin who occupied a semi-independent position, Dauphiné being annexed to the crown in 1450. The suzerainty of the emperor (who in 1378 had named the Dauphin "Imperial Vicar" within Dauphine and Provence; gradually died out. In the 16th century the names of the reformer Guillaume Farel (1489-1505) and of the duke of Lesdiguières (1543-1626) are prominent in Dauphiné history The "States" of Dauphiné (dating from about wthe middle of the 14th century) were suspended by Louis XIII m 1628 but their unauthorized meeting (on July 21 1788) in the tennis court (Sulle du Jeu de Paume) of the castle of Vizille, near Grenoble was one of the earliest premonitory signs of the great French Revolution of 1789 It was at Laffrey, near Grenoble, that Napoleon (March 7, 1815) was first acclaimed by his old soldiers sent to arrest him

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DAURAT or DORAT, JEAN (in Lat. AURATUS) (1508-1588), French poet and scholar, and member of the Pléiade, was born at Limoges His name was originally Dinemand. He belonged to a noble family, and, after studying at the college of Limoges, came up to Paris to be presented to Francis I., who made him tutor to his pages. As a private tutor in the house of Lazare de Baif, he had J A de Baif for his pupil. His son, Louis. showed great precocity, and at the age of ten translated into French

with h fether A te he death o Lazare de Ball in 1517 Jean Dat a became the director of the Collège de Coqueret, where he had among his pupils besides Barf, Ronsard Remy Belieau and Pontus de Tyard Joachan du Beliay was added by Ronsard to this group, and these five young poets, under the direction of Daurat, formed a society for the reformation of the French language and literature. They increased their number to seven by the initiation of the dramatist Etienne Jodelle, and thereupon they named themselves La Piéiade in emulation of the seven Greek poets of Alexandria. The election of Daurat as their presi dent proved the weight of his personal influence, and the value his pupils set on the learning to which he introduced them, but as a writer of French verse he is the least important of the seven Meanwhile he collected around him a sort of academy, and stimutated the students on all sides to a passionate study of Greek and Latin poetry. He himself wrote incessantly in both those languages, and was styled the Modern Pindar His influence extended beyond the bounds of his own country, and he was famous as a scholar in England, Italy and Germany. In 1556 he was appointed professor of Greek at the Collège Royale, a post which he continued to hold until, in 1567 he resigned it in favour of his nephew, Nicolas Goulu Charles IX gave him the title of poeta regius. His flow of language was the wonder of his time; he is said to have composed more than 15.000 Greek and Latin verses. The best of these he published at Paris in 1586 as I Aurali Lemonicis poetae et interpretis regii poemata. He died in Paris on Nov 1 1588, having survived all his illustrious pupils of the Pleiade except Pontus de Tyard He was a little, restiess man of untiring energy, rustic in manner and appearance. His unequalled personal influence over the poets of his age gives him on importance for which his own writings do not fully account

The Oewvres poétiques in the vernacular of Jean Daurat were edited (1875) with biographical notice and bibliography by Ch Marty-Laveaux in his Pléiode françoise.

DAVAO, a well laid out municipality (with administration centre and 40 barrios or districts), and capital of the Province of Dávao, Mindanao, Philippine Islands, located on the Gulf of Dávao, at the mouth of the Dávao river, about 800 m from Manila Pop (1918), 13 300, of whom 49 were whites, 2,874 Japanese and 493 Chinese It is in the midst of a rich, fertile region which produces considerable abacá of very high grade, besides copra and other products. A meteorological station is established here. In 1918 it had 34 manufacturing establishments. with output valued at 345,500 pesos and 64 household industry establishments with output valued at 55,900 pesos. Of the nine schools, seven were public. The inhabitants are for the most part Bisayans (Christian Filipinos of the Bisayan islands) pagans (especially Mandayas and Bagobos), Moros and Japanese The Japanese are developing the entire province of Dávao where they have invested considerable capital

DAVENANT, CHARLES (1656-1714), English economist, eldest son of Sir William Davenant, the poet, was born in London, and educated at Cheam grammar school and Balhol college Oxford. He was member of parliament successively for St Ives, Cornwall, and for Great Bedwyn He held the post of commissioner of excise from 1683 to 1689 and that of inspectorgeneral of exports and imports from 1705 till his death in 1714. He was also secretary to the commission appointed to treat for the union with Scotland. His most important works were: Ways and Means of supplying the War (1695), An Essay on the East India Trade (1697); Two Discourses on the Public Revenues and Trade of England (1698); An Essay on the probable means of making the people gamers in the balance of Trade (1699); A Discourse on Grants and Resumptions and Essays on the Balance of Power (1701)

See his Works edit by C. Whitworth (1771).

DAVENANT OF D'AVENANT, SIR WILLIAM (1606-1668), English poet and dramatist, was baptized on March 3, 1606; he was born at the Crown Inn. Oxford, of which his father, a wealthy vintner, was proprietor. It was stated that Shakespeare always stopped at this house in passing through the city of Oxford, verse one of his father's Latin pieces; his poems were published and out of his known or rumoured admiration of the hostess, a

test in women becomes a serve which a tributed Davinint's niterring he Shake-pears a kaond nilah inore is reason to beleve Construct burse's ensources Aver a unit stay at Lincom, course Oxford Diversor Litural a page to the duthess of Rich-Play, American Kirroun the Lorn andr. Vestig produced in roof lither gises and mescular followed one most imperions of which was high in the our at court, and success diffen Jonson as gore aureste. Taroughout the cast war Date and supported the king. convexer (1443), after which he was anighted, and returned to Parts after the native of Nasely. He was captured by the Parlia-Channel He was intered at Cowes until 1631 and was sent to ment by the compassion of his epic poem. Govdibert, and was released it is said on the personal intercession of Muton, for whom he miero, led to his turn after the Restoration

Descript had been movager or the Drury Lone theatre when the Purusa régime put an end to dramatic performances. In 1656 he contrived to evade the law by giving semi-private representations in private houses. The first of these productions was The First Day's Entertainment at Riviand House (May 21, 1656). speeches for and against the drama with declamation and masic. The functs Stege of Rhodes (Aug 1636) tollowed. The was not. as sufficiences stated the first obtasion any blich changes of scenery ! were employed and women appeared on the stage, but it does mark the beginning of the change from the ancient simplicity of the English stage. To this performance was given the name "opera" In 1658 Davenant was permutted to open the Cockpit theatre in Urary Lane for historical drama, though not without some protest l from Purisan sources. In 1659 he was imprisoned for complicity in the rising of Sir George Booth. At the Restoration Davenant and Killigrew received a patent to set up two companies of players, and Davenent's company became known as the duke of York's players, housed at first in Lincoln's Inn Fields There were performed many musicat plays" and the theatre became known as the 'upera'

The duke of York's players produced some of Davenant's pre-Commonwealth plays in a revised form, notably Love and Honour (1640). The Wits and The Planone Lovers (1636) but many plays of Shukespeare. Jonson and Fletcher were 'adapted,' with considerable freedom, by Davenant for the Rustoration stage. He also produced versions of various French plays.

Davenant died on April 7, 1668, and was buried in Westminster Abbey.

His works were collected in folio in 1672. See the ecution of his Dramuse Works, with prelatory memour and notes, by J. Maldment and Logan (1872-74).

DAVENPORT, CHARLES BENEDICT (1866-American roologist was born at Stamford, Conn., on June 1. 1866. He graduated in 1887 at Brooklyn Polytechnic institute and, in 1889, at Harvard, from which in 1892 he received the degree of doctor of philosophy. After serving as assistant and instructor in zoology at Harvard in 1883-99, he was assistant and associate professor of zeology and embryology in the University of Chicago from 1899 to 1904 when he was made director of the station (at Cold Spring Harbor, L.I., NY) for expenmental evolution of the Carnegoe Institution of Washington, in which he became director of the eugenics record office in 1910 and of the department of genetics in 1918. He made valuable investigations in the breeding of animals, and in the heredity of eye bair, and skin tolor, and of temperament, stature, and build in men. Among his published works are Experimental? Merphelogy (1897-99). Statistical Methods in Biological Varia-Shim Color in Negro-White Crosses (1912) The Pee

Norsedism and Temperament (1915). Defects Found in Drafted Men (1970), Body Bula and Its Inheritance (1923) and numer-

ous contributions to biological journals

DAVENPORT, EDWARD LOOMIS (1816-1877). my we and then ervered the hillsection of False Greville, Lore American actor bern in Boston, made his first appearance on the brokes. After Drokes death he turned to the stage his first stage in Provincince in support of Junius Brutus Booth. Afterwards he went to England, where he supported Mrs. Anna Cora. Howatt (Rachie) (1819-70), Macready and others, In 1851 was The Wife themsed in 1533 and published in the Davenant (see was again in the United States, appearing in Shakespearian puls and in dramatizations of Dickens's novels. As Bill Sikes he as especially successful and his Sir Giles Overreach and Brutus He joined Herrietta Maria in Iranie and was sent by her on overe class greatly admired. He died at Canton, Pa , on Sept. 1. ENAL had one mission to England. He found at the siege of 1877. In 1849 he had married Fanny Vining (Mrs. Charles Gill) (a 1541) an English actress also in Mrs. Mowatt's company.

Their daughter FANNY (LILY GIPSY) DAVENPORT (1850-1898) mentalines more than once. In 1652 he was at the head of a lappeared in America at the age of 12 as the king of Spain in condizing expedition to Virguia which was intercepted in the Faint Heart Never Won Fair Lady. Later (1869) she was a member of Daty's company, and afterwards, with a company of the Tener to await trial for high treason. He solated his imprison-, her own letted with especial success in Sardou's Fédora (1883). Cleopaira (1890) and similar plays. Her last appearance was on

March 25, 1598, shortly before her death.

DAVENPORT, ROBERT (fl. 1603-1639), English dramatist, of whose life nothing is known. Three plays of his have surviced, King John and Matilda (printed 1655); and two comedies. The City-Nightcap, (licensed in 1024, but not printed until 1661) and A New Tricke to Chest the Direll (printed 1939) Other plays entered in the Stationers' Register as Davenports are lost, including one called Henry I and Henry II (1653), the second part of which was said to be the work of Davenport and Shakespeare

Davenport's plays were reprinted by A. H. Bullen in Old English Plays (new series, 1890) The volume includes two

didactic poems, which first saw the light in 1623.

DAVENPORT, the third largest city of Iowa, USA, on the Mississippi river, opposite Rock Island and Moline, Ill, the county seat of Scott county. It is on Federal highways 32 and 61, and is served by the Burlington, the Chicago, Milwaukee, St Paul and Pacific the Clinton, Davenport and Muscaune, and the Rock Island railways, and by river steamers and barges. The area 13 17-75 sq miles. The population in 1920 was 56,727 (85% native white) and was estimated locally at 65,000 in 1928 Davenport has a beautiful location on the slope of a bluff, rising to an altitude of 575ft above sea-level, and commanding extensive views of landscape and river scenery. There are 13 parks (one along the river front), covering 747ac., and including two municipal golf courses, a bathing beach, tennis courts, baseball diamonds and a zoological garden. The assessed valuation of property in 1926 was \$49 703,403 On a 1,000ac. island in the Mississippi, opposite the city, is the Rock Island arsenal, the largest munitions plant of the U.S. Government, representing an investment of \$48.456,809, where 18,000 persons were employed during the World War Davenport is an episcopal see of the Roman Catholic and the Protestant Episcopal churches, and is the seat of St. Ambrose's college (Roman Catholic), the Palmer School of Chiropractic, and the Iowa Soldiers' Orphans' Home It has a large commerce, by rail and by water, shipping especially great quantities of grain, and has important manufactures, including freight cars, gondolas, ready-cut houses, flour and other cereal products, candy, bakery goods, coment. washing machines and agricultural implements The output of its factories in 1927 was valued at \$30,536,742 Bank clearings in 1926 amounted to \$409,646,000. Davenport was founded in 1835 under the leadership of Col. George Davenport It was incorporated as a town in 1838 and as a city in 1851. The first bridge across the Mississippi was built at this point in 1853.

DAVENTRY (pronounced dan'ırı or dav'en-tri), a market, town and municipal borough in the Daventry parliamentary division of Northamptonshire, England, 733 m. NW from London on a branch of the LMSR from Weedon. Pop (1921) 3,532 Daventry is situated on a sloping site in a rich undulating country firms (and ed. 1904). Inherdence in Poultry (1906). Eugenics! The parish church of Holy Cross was rebuild in 1951 Borough Espro). Heredity in Relation to Lugenics (1911), Heredity of hill adjoining Deventry is the site of a vast encient earthwork, have been found at Burnt Walls in the vicinity and other

the county council. The chief industry of the town is the manu-, although there is reason to suppose he was born c 500 and died facture of boots and shoes. In 1925 the British Broadcasting Corporation established a high-power wireless station (5 XX) on 1 Borough hill, and in 1927 installed a second station (5 GB). The first station took over the functions formerly performed through; Cnelmsford, and allows for two-valve reception throughout Great Britain and Northern Ireland, the area for which the BB.C is responsible; white 5 GB is in the nature of an experimental station for broadcasting alternative programmes, and takes the place of the earlier Birmingham (IT) station. Connection with London is by special lines laid by the Post Office Engineering Department. Owing to the elevation of Borough hill, the masts (500 ft high) are 1,136 ft. above sea-level. The power of the two stations is, respectively 5XX-25 km, transmitting on long wave (1.554.4 metres, 193 kc), 5 GB-30 kw, medium wave (479 2 metres; 626 kc) Power derived from Northampton also lights the town of Daventry, and is transformed locally. The large commercial post office station at Hillmorton, near Rugby, is visible from Borough bill. The borough of Daventry is under a mayor 4 aldermen, 12 councillors, and has a court of summary jurisdiction

Nothing is known of Daventry itself until the time of the Domesday Survey when the manor consisting of eight hides was held by the countess Judith, the Conqueror's niece, as the widow of Waltheof, the last native earl of Northumbria, who at the Conquest held the great midland earldom of Huntingdonshire and Northamptonshire. Before the end of the century it had passed to Smon de St Liz, whose grandson, Walter Fitz-Robert, held "of the fee of the king of Scotland," who had become possessed of the earldom of Huntingdon (see Huntingbonshine and NORTHAMPTONSHIRE) Daventry was created a borough by King John, who granted to Simon, son of Walter, a market on Wednesday and a fair on St Augustine's day But there is no extant charter before that of Ehzabeth in 1576, by which the town was incorporated under the name of the bailiff, burgesses and commonalty of the borough of Daventry. James I confirmed this charter in 1605-06, and Charles II in 1674-75 granted a new charter. During the civil wars Daventry was the headquarters of Charles I. immediately before the battle of Naseby. The last remains of the Cluniac priory endowed by Simon de St. Liz were removed during the last century

The pronunciation of Daventry as "Dane-tree," which is sanctioned by ancient local usage (cf Shakespeare's "Daintry," Henry VI, pt in, act V.), is referred by tradition to the building of the town by the Danes Though the written element affords no definite proof of early pronunciation, the spelling "Daventrei" in Domesday is explicit, and in the legend of a seal of the Prior Nicholas (1231-64) reads "Davinire" (Victoria County History, Northampton, vol. ii).

DAVEY OF FERNHURST, HORACE DAVEY, BARON (1833-1907), English judge, son of Peter Davey, of Horton, Bucks, was born on Aug 30, 1833, and educated at Rugby and University college, Oxford. In 1861 he was called to the bar, and in 1875 became a QC In 1880 he was returned to parliament as a Liberal, but lost his seat in 1885 On Gladstone's return to power in 1886 he was appointed solicitor general and was knighted, but had no seat in the House, being defeated at both Ipswich and Stockport in 1886; in 1888 he found a seat at Stockton-on-Tees, but lost it in 1892. As an equity lawyer Sir Horace Davey ranked among the finest interects and the most subtle pleaders ever known at the English bar. The state of the University of Oxford, and Charity Commissioners, Among the Commissioners, Among the Commissioners, Charity Ch engaged were the Mogul Steamship Case (1892), the trial of the bishop of Lincoln, and the Berkeley Peerage case. In 1862 he married Miss Louisa Donkin, who with two sens and four daughters, survived him. In 1893 he was raised to the bench as a lord justice of appeal, and in the next year was made a lord of appeal in ordinary and a life peer He died in London on Feb 20, Eggy.

Watling street passes close by. Daventry grammar school (15-6), | DAVID, ST., the patron saint of Wales, whose feast falls on enlarged and modernized is now a mixed secondary school under 'March 1. Few instorical facts are known regarding the saint, c 600. According to his various biographers he was the son of Sanade, a prince of the line of Cunedda, his mother being Non. who ranks as a Cymric saint. He seems to have taken a prominent part in the celebrated synod of Llanddewi-Brefi (see Cappiganshire', and to have presided at the so-called 'Synod of Victory" heid later at Caerleon-on-Usk. At some date unknown, St. David, as peu-escoli, or primate of South Wales, moved the seat of ecclesiastical government from Caerleon to the remote headland of Mynyw or Menevia, which is still under the name of St David's (Ty-Deur) the cathedral city of the western see St David founded numerous churches throughout South Wales (53 still recall his name) but apparently he never penetrated farther north than the region of Powys, although he seems to have visited Cornwall. His shrine at St. David's became a notable place of pilgrimage, and at Henry Ls request he was formally canonized by Calixtus II about 1120

The earliest known biography is that of Rhygyvarch (d. 1099), one of the last British bishops of St. David's, from whose work Giraldus Cambrensis (q v) chiefly compiled an extravagant life. Rhygyvarch's Life has been edited with a translation by A W Wade-Evans (1914) See also Catalogue of mss. books etc, relating to St. David, the cathedral Church of St. David's, etc (Cardiff, 1927).

DAVID, king of Judah and Israel, was the founder of the Judaean dynasty at Jerusalem The exact date of his reign is uncertain It used to be reckoned from 1055-1015 B.C., but is now generally fixed at about 1010-970 BC. Our principal source for his history is I Sam. xvi-I Kings ii. Its very extent shows how deep was the impression he made upon the mind of his people. indeed, his popularity as a national hero is one cause of the difficulty we find in reconstructing his history. Stories of exploits and incidents in his career were repeated with delight from generation to generation. Groups of these stones were collected together, and from several such sources the history of his doings was compiled The editors have pieced their material so well together, however, that it is impossible for us to separate it with accuracy into its constituent sources. But the harmonizing has not been pertectly carried out, and the inconsistencies and duplications have enabled the critics to separate more or less clearly at least two main sources The Greek text, again, varies very considerably from the Hebrew, offering a different collection of the narratives For detailed discussion of these problems the commentaries on Samuel, and SAMUEL (BOOKS OF) should be consulted Another history of David is to be found in a Chron xi-xxix, which is to some extent parallel to that in Samuel but omits many of the parratives On the other hand it contains much additional material which is however, of inferior historical value. It is much fuller on subjects which were the special concern of the editor of Chronicles, such as details of temple arrangements and lists of officers. It is particularly interesting because of its obvious tendency to idealize the character of David, and in this respect was the late stage of a process which must have begun soon after the death of the national hero, and of which we find traces even in Samuel

The history in Samuel opens with an account of the anointing of David by Samuel as successor to Saul, whom Yahweb had rejected from the throne of Israel (1 Sam xvi. 1-13). Samuel is instructed that the new king is to be found among the sons of Jesse who dwells at Bethlehem, 5m south of Jerusalem. A sacnfice is celebrated there, to which, beside Jesse and his sons, the elders of the town are invited David, busy in tending the sheep, is apparently too young to be summoned with his older brothers. But when the oracle rejects each of the seven elder brothers Samuel asks whether there is no other son, and David is summoned. It is made clear that he is the chosen one, and Samuel anounts him. This narrative, which is seemingly rather the conclusion of Samuel's history than the beginning of David's, raises suspicions. It will be noted that in I Sam. xvii 13 seq the brothers of David are three in number (v 12 is harmonistic), not seven and in I Chron, is 13-15, say It is highly improbable that the cere mony could have been performed without some news of it getting to the ears of Saul, and the later seem to ignore it.

Introduction to Saula—1 Sam, who have an account of Data's introduction to the tour of High. One of the king's strengths who a much the bugh, who can play the ham to committed models of metricular and have taken upon South recommends from whom he desires not native as a good harpest out as taken whom he desires not native as a good harpest out as taken whom he desires not a run of war—1 description difficult to from 1 a with the presenting microtive unless a considerable number of years he supposed to intervene Data is summored and his many law of at pears to have who makes him not only court ractive but the his gan armour-bearer.

crabit over the Philippe giant Guith, and its consequences This process however ruses several sensus difficulties. First of abilities is the fact that in a Sum. And to the slaying of Goldath is artributed to Elharan one of Davic's heroes. An attempt to reconand 10-13 or in any others some reference to it would have been expected and on these and other grounds the simpler traditime of a Symuel is usually preferred. On the other hand, it may well have been some such valuat deed that first attracted Soul's! attention to David (16' xiv 52), and accounted for the popularity a the latter which made him an object of jealousy to Saul. Hence panded version of some historic combat in which David's opponent was not Gohath. Much more serious is the impossibility of reconciling the narratine with what precedes. Although according to mi Saul dus already appointed Davis to be his musician and armour-becrer now David appears as an untitled shepherd lac. sent by his lather with provisions for his brothers in the Israelite camp. His brothers treat him with a petulence hardly conceivable if he already stood well at court, and vv 53-58 show that neither Saul nor his captain Abne: had ever heard of David before. Some light is thrown upon this difficult problem by a study of the Greek versions, in one group of which, represented by the Vatican text, zvii. 12-31, 41 50, and xvii 55-xvii. 5 are missing This shorter form of the tradition is much more intelligible, and more easy to reconcile with xvi It will be seen at once that xvit 32 follows xvii. is much more naturally than does v in Whether the Greek or the Hebrew text is original is a much-debated problem, but on the whole it is more likely that the additional verses in the latter are expansions, taken from another biography of David, than that the Greek is an abbreviated form of the Hebrew. In xviii 1-4 we have the first nource of the friendship that grew up between Jonathan, Saul's son, and David. The investment of David in the apparel of Jonathan may be an alternative to the exchange of blood as a symbol of brotherhood for the clothes of a man were regarded as in a sense part of his personality. Otto Eissfeldt, however, has argued plausibly (Theologische Blatter, Oct. 1927) that this is part of a paralle' tradition according to which David was armourbearer and favourite, not of Saul, but of Jonathan, a theory which would explain some difficulties in the later parratives.

Conflicts with Saul.—But now Saul becomes jealous of David. because he is the popular idol and his exploits are extelled beyond those of the king. The development of this jealousy is described naturally in the shorter Greek version of xviii, according to which Saul removes David from personal attendance at the court and makes him captain of a thousand soldiers. In his new position David is very successful and his popularity increases, so that Saut becomes more alarmed than ever. Michal, Saul's daughter, falls in love with David, and Saul promises him her hand if he will attempt as abnost impossible task of valour, hoping that he may be killed in the endeavour. David succeeds brilliantly and claims the king's daughter Sun's anger now becomes a fierce haired, and he proposes to Jonathan and the court the assassination of David (xxx. 1). The additional matter in the Hebrew, which includes the incident—a double of xxx q sea.—of Saul's attempt to murder Bavid, and his unfulfilled promise to give his daughter Merab to him, destroys the psychological truth of the narrative. The breach between Saul and David was made up, for a time, by Jonathan

(xix z-7) but further successes of David in war reawaken the Jormant haired of Saul, who burks a spear at David which the after evades. The story of Saul's attempt to have David assassinated in the house where he dwelt with Michai (xix 11-17), which bears all the marks of truth, is out of place here, when David has already field (v 10) and may possibly be connected with xvin 27 (coe H. P. Smith in the International Critical Commentary).

Chapter xx , which records the covenant made by Jonathan with David and prepares the way for the story of David's kindness to Jonathan's son Meridaal seems to be independent of the traditions The rosa socion of the history in Sumuel even 1-win 5) in which it is embedded and has been expanded by the additional records the most for our explain of David his altery in single interview between the two friends, vv 40-40. It certainly cannot tollow on xix. 18-24, the story of David's attempt to find sanctueary with Samuel at Ramah, for it supposes David to be still at court and Jonathan to be unaware that David stands in peril. This flight of David's may possibly be fitted in after xx1 9, xx 1 is an car these contradictory statements is found in a Chron xx 5 | meffective attempt to remove the difficulty. Next David goes to where the victim of Ethanin's valour is described as 'Lohmi, the tithe sanctuary at Nob, where he had been wont to consult the brother of Consth." David's exploit is not referred to in a Sam | priestly oracle (xxv 15), and, pretending that he is engaged on a secret expedition in Saui's behalf, obtains of Alimelech the priest bread from the sacred table and the sword of Goliath. This narrative may well follow xix 10, the incident of David's escape from the spear hurled at him by Saul. The story goes on to relate the flight of David to the court of the Philistine king of Gath, Achish, where he escapes from the revenge which might otherwise have the narrative of 1 Sem xvi. though legentary, may be the ex- | neen taken upon him by feigning madness (xxi 10-15). This anticipates xxvn and is out of place at this point of the history. surely David would not go to the very city of Goliath flaunting the sword of the grant!

Outlaw Life.—For years after his escape David lived the life of an outlaw. He made his madquarters first at the strongholdthe traditional "cave is a mistake-of Adullam, a Canaanite town said to have been captured by Joshua (Josh xn 15), probably on the western border of Judah, and about 12 miles from Bethlehem Here he was joined by his clansmen and by others who were in a desperate position, such as those who feared to be sold into slavery for failure to pay their debts, until his band numbered 400 men A probably secondary tradition xxii 3 seq., relates that he placed his father and mother under the protection of the king of Moab The following verse, which speaks of the seer Gad as in the company of David, is also probably a later tradition. Saul was disconcerted at this new development. His bated rival had escaped his clutches, largely through the connivance of his son An Edomite, Doeg, who had been a concealed witness of the interview at Nob between Ahimelech and David, reported what had happened there. and Saul sent for Ahimelech In spite of Ahimelech's protest that he had ac'ed in all good faith with Saul, the king commanded that he and all the other priests of the sanctuary should be slaughtered. His bodyguard refusing to carry out this command, he ordered the informer to act as executioner, and Doeg slew 85 priests of Noba suspiciously large number All living creatures in that town were also put to death, save Abiathar, one of Ahimelech's sons, who escaped and took refuge with David

Presently word was brought to David that the Philistmes were raiding Keilah, south of Adullam; and, despite the reluctance of his followers to undertake so desperate an enterprise the outlaw chief, encouraged by a priestly oracle, defeated the Philistines and delivered Keilah Probably he maintained his band by acting at a price, as protector of the district against such marauding attempts on the part of the Philistines and Bedoums Saul saw an opportunity of capturing David while he was away from the protection of his stronghold and prepared to besiege him in Keilah, but David, warned by the oracle that the mbabitants of Keilah would deliver bun up to Saul if he remained within their walls, dispersed his band, which had now grown to 600 men David lived now the life of the bunted outlaw, wandering from stronghold to stronghold in the border country Popular tradition tells in xxii. xxiv., xxvi., of a visit of consolation from Jonathan, the attempt of the men of Ziph to betray David to Saul and of David's magnanimity in sparing Saul's life when it was in his power to kill hun, the two latter incidents appearing in duplicate The incident of David's marriage to Abigail, the wife of a rich farmer who died a few days after he

had churushly refused to pay David the less for protect on af forded h m (xxv) sumpor an as showing how Da dimartained h s pand and how he streng henced h s polition by matrimonial all ances (c) xxv. 43).

Wearying at last of his precarious life he decided to place himself under the protection of Achish, the Philistine ruler of Gath, from whom he obtained permission to establish himself and his band at Zikiag, which probably lay to the south of Judah. Here for more than a year he maintained his troop by raids upon the Amalekites and other marauding Bedowns. According to the rather improbable story of xxvii. 10-12 he represented these to Achish as raids upon Judah, as though to give proof of his permanent alienation from his own people. In any case Achish was convinced of David's loyalty and took him and his band as part of the army which he led in an important campaign against Saul But on the eve of battle the Philistine captains, more distrustful than their leader, persuaded Achish to order David's return to Ziklag David reached Ziklag to find that in his absence the Amalekites had raided and burned the town, carrying off with other booty David's wives. Pursuing the marauders he inflicted upon them a signal defeat, recovering all that had been carried off and much spoil in addition. By distributing a part of his spoil among the rulers of the various towns in the south country and of the old haunts of his freebooting days he strengthened his hold upon the affections of that countryside. In the meantime the Philistine campaign against Israel had been successful, and Saul and his sons, including Jonathan, lay dead upon the slopes of Mt Gilboa. The fertile lowlands of Jezreel and the Jordan fell into the possession of the victors, and Saul's son Ishbaal, who had escaped the fate of his brothers maintained a shadowy sovereignty in the remote city of Mahanaim, the force behind his throne being Abner, Saul's commander-inchief The news of Israel's defeat and Saul's death is brought (2 Sam. 1) to Ziklag by an Amalekate, who claims—in contradiction to the account in I Sam xxxi 4-to have slain the wounded king, and offers to David the crown and bracelet which he had taken from the corpse. Instead of receiving the reward which he doubtless looked for the messenger is slam at the command of David who utters the noble dirge on Saul and Jonathan, 2 Sam. i 19-27 The compiler avowedly takes the poem from the "Book of Jashar," but there appears to be no cogent reason for denying that David is its author

King at Hebron.—David now takes a further step in his advance towards the throne, for, in response to a Divine oracle, he establishes his household and his band in Hebron, where, at the age of 30 (if z Sam v 4 may be trusted) he is anomted king by the Judaean clans there he reigned, according to the statement of 11 11, seven and a half years. His position as established ruler of an important town, on friendly terms with the neighbouring sheikhs, and allied by marriage with the families of Caleb and Jezreel (in Judah), was well secured Further such marriages are recorded in iii. 3-5. It is quite in keeping with the constant tradition of David's chivalrous treatment of Saul that he should have sent a message of appreciation to the men of Jabesh-Gilead for their pious act in burying the bodies of Saul and his sons. ii 46 seq; and with his skilful diplomacy that the messengers should hint that Jabesh-Gilead might do well to transfer its allegiance to himself-a hint which was for the time being ignored

A conflict between the forces of Ishbaal, under Abner, and those of David, under Joab, which developed out of a contest between 12 picked men on either side, ended greatly to the advantage of David's men. In the course of the struggle Abner slew Asahel, Joab's brother, thus creating a blood-feud which had serious consequences in the subsequent history. Abner, recognizing that the cause of Ishbaal was hopeless, took to himself one of Saul's concubines, an infringement of Ishbaal's prerogative as Saul's successor, with deliberate intent to raise a quarrel with his lord which might provide him with a pretext for transferring his allegiance to David. When Ishbaal protested Abner sent an embassy to David offering to bring the northern clans over to him. According to one story (iii 12-16), David demanded the return of Michal to him, as an evidence of good faith, but this story is consistent neither with itself nor with its context. In any case Abner, returning

from Hebron a ter arranging term—th David was summoned back b. John and theatherously slain in pursuance of the blood-feud David was indignant and snewed his indignation by according outial to Abner and proclaiming a fast. Apparently Joah was both too strong and too useful for the king to punish him, so David handed over that task to his God. The position of Ishbaal, deprived of Abner's help went from bad to worse, and he was eventually assassinated by two of his own followers. They brought his head to David, but received the same reward as the Amalekite who thought to have found favour with David by his claim to have killed Saul. Following this the northern tribes swore allegiance to David at Hedron, and he became king of the united peoples. Here we may place the two successes over the Philistines parrated in V. 17-25.

Capture of Jerusalem.—Another important stage in David's career was marked by the capture of Jerusalem, an ancient Jebusue stronghold which had never been in Hebrew hands. Regarded as impregnable by its inhabitants, who treated David's threat with decision, it was captured by the ascent of a shaft which had been pierced through the rock to afford the city a water supply. The stronghold was further fortified by David, who built himself a cedarwood palace the materials and artificers for which were furnished by Huram, king of Tyre—another indication of David's growing importance. David also enlarged his harem

The king now turned his attention to the ark of Yahweh, which had remained in obscurity since its return from the Philistines in the early youth of Samuel. It was brought up from Baal of Judah, and, after having been temporarily housed with Obed-Edom owing to an untoward incident during its progress, was placed in a specially prepared pavition in the citadel, and great rejoicings. That the king should have proposed to build a temple worthy to stand beside his palace is quite natural, and ch vii, which relates how Nathan the prophet, after first sanctioning the project, forbade it in the name of Yahweh, may, though comparatively late, be based on a historical foundation. There follows in viii. a summary of military successes achieved by David and Joab, his commanderin-chief The concluding verses show that the court had been properly organized and a bodyguard of mercenaries provided for the king The lame Mephibosheth (-Meribaal), Jonathan's son, was admitted to the royal table as the king's pensioner, and his family estates were restored to his use.

A friendly embassy from David to the newly crowned king of Ammon was treated with insult, and a war ensued, in which the Ammonites, who succeeded in gaining considerable Aramean support, were completely defeated, and their chief city was captured by David after a siege. It was during this campaign that David, in order to obtain for himself the beautiful Bathsheba, caused Joab deliberately to abandon her husband, Uriah the Hittite mercenary, to an Ammonite assault. Not only were the Syrian allies of Ammon reduced to submission, but Edom was completely subjugated by Joab

Internal Troubles .- From this time on David's reign was undisturbed by foreign attack, but, in the absence of necessity for standing together against a common foe, internal troubles developed. In part these proceeded from the king's own household Absalom, his third son, having contrived the murder of Amnon the eldest, in revenge for an assault upon Absalom's sister Tamar, fled the country and took refuge with his mother's father, Talmai, king of Geshur. After three years Joab satisfied the unexpressed longing of David for his son's return for which he secured pernussion by a stratagem. Absalom was excluded from the court for two years, and when David was fully reconciled to receive him began to plot against his father. He succeeded in creating a party for himself, and after some four (so read in xiv. 7) years raised the standard of revolt in Hebron David was compelled to flee in haste to Gilead, abandoning Jerusalem to Absalom. The first battle between the forces resulted in the total defeat of Absalom, who was slain, against the express command of David, by Joab David was welcomed back by the people, but the northern tubes resented the precedence which was claimed by Judah on the ground of kinship to the king. This discontent manifested itself in a rebellion headed by Sheba, a Benjamite, who eventually threw him-

ard the extra fac heen wa ae es sa bes searly D a m L 2 a sequent to a grounged stage on a baconcares size. That a and tares out his beed to Jost who and arrived to draw oil his turces. on that comments at submit be said that some scholars eg, Nurselet and S. A. Curk. Notes an Old Testame it Hustry, pp. 3-174, have argued for by that the results of Assatom and Shena should be dived in a much earlier period of Durid's reign. The remaining imprers of a Sautuel interrupt the history of David, which is reserve in 1 Kings 1. They contain ingrature to David which have ween weerted here by dimerest emicis. The two postical pieces. Li Sant and a-main, his not Devides, it will be f recognised at once that they treerept the catalogue of David's herees and todir cap oils which which is resmes from axi on. The story of the 1-14, repring non David delivered over to the men moved by the pathetic fidelity of Rispan he gathered the bones of these men and if Saul and Jonathan to be decently interred, is probably historic though not in the proper chronological order. The story of the census and its disastrous results, may possibly come from the same source, though some parts of it may be later assertions.

The closing scenes of David's use, I Kings i -ul II, show the old warrier enfeabled by age and the succession to his throne the subject of intrigue. His eldest surviving son. Adomysh, regarded himself as the heir. Like Absalom he was of great personal charm and a favorate with numbers of the people, his outstanding supporters being Joah and Abiether Like Absalom too, he sought to make his position secure by assuming the state suitable to the heirapparent. He made a great feast for the men of Judah, inviting the king's sons but deliberately ignoring Solomon, Bathshela's son, the prophet Nathan, and David's 'mighty men,' who evidently constituted a party in favour of Solomon's succession Bathsheps and Nathan contrived to secure from David the radification of an old promise that Solomon should succeed to the throne and the aged king roused himself to make arrangements for the formal proclamation of Bathshebe's son. Adonijah's followers were seized with panic, and he himself sought sanctuary by taking hold of the borns of the altar, whence he suffered himself to be removed upon a rather equivocal promuse by Solomon that his life should be spared. The remainder of the story records, with some later expansion by a Deuteronomic editor, how David left instructions to Solomon that Jose and Shimei should be put to death, but kindness shown to the family of Barzillai. This ungenerous treatment of Jeab, to whom more than to any man he owed the success of his career, and the virtual recapitation of his promise to spare Shimei strike en unpiezsant note in our ears. Not does the consideration of the king's failing powers and of his possible fear that Solomon's position might be endangered by adversaries whom he himself had felt irec to spare completely mellow its harshness And so, after a reign of 40 years. David slept with his fathers.

David's Character and Work-Rightly to estimate the character and work of David we must judge him by the standards of his own day. His military capacity is proved by the uniform success he arineved as commander. Even though the story of his conduct with Goliath may be legendary it undoubtedly gives us the measure of his reputation for personal bravery. To these qualities he added astute diplomacy and far-seeing statesmanship. That at times he resorted to decoit—as, for example, in the employment of Hushsi to spy upon the movements of Absalom-is true, but this would be commended by his own age and is reputable even to-day. He knew well how to wait his opportunity, and instead of snatching at the kingship in haste allowed the itnit to ripen until at fell into his hands, all the while strengthering his hold upon his fellow countrymen. His choice of Jerusalem as capital is an excellent example of his wisdom. In seiting it he furnished himself not only with a secure citadel, whose natural strength was shown later by its desperate resistance to Babylonians and Romans, but also with a ceptre of government not so closely associated with his own tribe of Judah as was Hebron, and one therefore less likely to cause jealousy on the part of northern Israel. His real monument was the united kingdom which he established, its influence stretching gh up no Syra i was the not powerful empire that ever tractice produced. True his opportunity was exceptional, be cause neither Egypt, Assyma for Babylon was at the time in a position to challenge his progress, but to have achieved it at all was worderful. We can reactly understand that the Jews of later cays looked back to David as the ideal king and pictured the nuer of the happy day for which they hoped as a second David.

David may be charged with harsbness in the treatment of conquered peoples—though the true meaning of 2 Sam xu 31 is that he set the people of Rappah to mental labour, not that he tortured them, but in this respect he compares favourably with his contemporaries. His delivery of Saul's descendants to be impaled was but openience to the will of Yahwah as he understood it. And on the other hand his record is marked by chivalrous treatment of his foes on several occasions. Even his outstanding faults, the of Gibeon sever of hands destandants to be impaired and how, I murder of Uriah that he might obtain Bathsheba, and his weakness in dealing with his sons, though we need not palliate them, were less hemous a thousand years before Christ than they would be to-day. He was a sincerely religious man a devout worshipper of Yahweh, as may be seen from his care for the Ark Though his relationships with the prophets Gad and Nathan may have been idealized by later editors he certainly was more amenable to propheric guidance than was Saul. He was assuredly not the soldiersaint of Chronicles, or the Psalmist of profound religious experience. But while it is improbable that he was the author of any of the Hebrew hymns he was undoubtedly a musician and a poet The dancer of 2 Sam vs. would naturally be the singer, too, and there is good reason for beheving the elegy on Saul and Jonathan and the little dirge on Abner, 2 Sam iii seq 33, are of David's composition. Moreover, the attribution of Psalms to David, though mistaken, is most easily understood if he was really a minstrel (cf also Amos vi. 5).

Greatly loved in his day, deeply revered by those who came after him, David was perhaps the most winsome character in Hebrew story, lovable, because so human, even in his faults. A great warrior and a great statesman, his importance as the real constructor of the Hebrew kingdom can hardly be overestimated

Bibliography—See the articles David in Hastings' Dict. Bible and the Ency Bib.; the Commentaries on Samuel by H. P. Smith. Dhorme and Caspan, S. A. Cook. Critical Notes on Old Testament History, R. Kittel, Geschichte des Volkes Israels, in pp. 108-187. Gestalten und Gedanken in Israel, pp. 120-157. (W. R. S.; W. L. W.)

DAVID L. (1084-1153), king of Scotland, the youngest son

of Malcolm Canmore and (Saint) Margaret, sister of Edgar Aetheling, married in 1113 Matilda, daughter and herress of Waltheof, earl of Northumbria, and thus became possessed of the earldom of Huntingdon. On the death of Edgar, king of Scotland, in 1107, the terratories of the Scottish crown were divided in accordance with the terms of his will between his two brothers, Alexander and David Alexander, together with the crown, received Scotland north of the Forth of Clyde, David the southern district with the title of earl of Cumbria. The death of Alexander I. in 1124 gave David possession of the whole. In 1127, in the character of an English baron, he swore fealty to Matilda as heiress to her father Henry I, and when the usurper Stephen ousted her in 1135 David vindicated her cause in arms and invaded England. But Stephen marched north with a great army, whereupon David made peace. The peace, however, was not kept After threatening an invasion in 1137, David marched into England in 1138, but sustained a crushing defeat on Cutton Moor in the engagement known as the battle of the Standard He returned to Carlisle, and soon afterwards concluded peace. In 1141 he joined Matikla in London and accompanied her to Winchester but after a narrow escape from capture he returned to Scotland. Henceforth he remained in his own kingdom and devoted himself to its political and ecclesiastical reorganization. A devoted son of the church, he founded five bishoprics and many monasteries. In secular politics he energetically forwarded the process of feudalization which had been instrated by his immediate predecessors He died at Carlisle on May 24, 1153

DAVID II. (1324-1371), king of Scotland son of King Robert the Brace by his second wife Elizabeth de Burgh (d. 1327) was born at Dunfermline on March 5 13 4 In accordance with

the terms of the realy of Nor hampton he was marned in July S to Joanna (d 1 62) d ugater of he Eng sh king Ed and II and became king of Scotland on his father's death in June 1329, being crowned at Scone in November 1331. Owing to the victory of Edward III of England and his protégé, Edward Bakol, at Hahdon Hill in July 1333. David and his queen were sent for safety into France, reaching Boulogne in May 1334 and being received very graciously by the French king, Philip VI. Little is known about the life of the Scottish king in France except that Château Gaillard was given to him for a residence and that he was present at the bloodless meeting of the English and French armies at Vironfosse in October 1339 Meanwhile his representatives had obtained the upper hand in Scotland, and David was thus enabled to return to his kingdom in June 1341, when he took the reins of government into his own hands. In 1346 he invaded England in the interests of France, but was defeated and taken prisoner at the battle of Neville's Cross in October of this year, and remained in England for eleven years. living principally in London and at Odiham in Hampshire. His imprisonment was not a rigorous one, and negotiations for his release were soon begun Eventually, in October 1357, after several interruptions, a treaty was signed at Berwick by which the Scottish estates undertook to pay 100,000 marks as a ransom for their king David, who had probably recognized Edward IIL as his feudal superior, returned at once to Scotland; but owing to the poverty of the kingdom it was found impossible to raise the ransom A few instalments were paid, but the king sought to get nd of the hability by offering to make Edward III, or one of his sons, his successor in Scotland. In 1364 the Scottish parliament indignantly rejected a proposal to make Lionel, duke of Clarence. the next king, but David treated secretly with Edward III over this matter, after he had suppressed a rising of some of his unruly nobles The king died in Edinburgh Castle on Feb 22, 1371. His second wife was Margaret, widow of Sir John Logie, whom he divorced in 1369, but he left no children, and was succeeded by his nephew, Robert II. David was a weak and incapable ruler, without his father's patriotic spirit (See Scorland, History.)

DAVID, the name of three Welsh princes

DAVID I (d 1203), a son of Prince Owen Gwynedd (d 1169), came into prominence as a leader of the Welsh during the expedition of Henry II in 1157. In 1170 he became lord of Gwynedd (ie, the district around Snowdon), but some regarded him as a bastard, and Gwynedd was also claimed by other members of his family. After fighting with varying fortunes he sought an ally in the English king, whom he supported during the baronial rising in 1173, after this event he married Henry's half-sister Emma But his enemies increased in power, and about 1194 he was driven from Wales by the partisans of his half-brother Llewelyn ap Iorwerth The chronicler Benedictus Abbas calls David rex, and Rhuddlan tastie was probably the centre of his vague authority.

DAVID II (c 1208-1246) was a son of the great Welsh prince, Llewelyn ap Iorwerth, and through his mother Joanna was a grandson of King John. He married an English lady, Isabella de Braose, and, having been recognized as his father's heir both by Henry III and by the Welsh lords, he had to face the hosnlity of his half-brother Gruffydd, whom he seized and împrisoned in 1239 When Llewelyn died in April 1240, David, who had already taken some part in the duties of government, was acknowledged as a prince of North Wales, doing homage to Henry III at Glovcester He was soon at variance with the English king, who appears to have espoused the cause of the captive Gruffydd Henry's Welsh campaign in 1241 was bloodless but decisive Gruffydd was surrendered to him, David went to London and made a full submission, but two or three years later he was warring against some English barons on the borders. To check the English king he opened negotiations with Innocent IV, doubtless hoping that the pope would recognize Wales as an independent state, but here, as on the field of battle. Henry III. was too strong for him. Just after Henry's second campaign in Wales the prince died in March

David III (d. 1283) was a son of Gruffydd and thus a nephew of David II. His life was mainly spent in fighting has

bro her the regning prince Llevelyn ap Gruftydd. His first revolt took place in 1254 or 1255, and after a second about eight years later he took refuge in England, returning to Wales when Henry III made peace with Llewelyn in 1267. Then about 1274 the same process was repeated. David attended Edward I during the Welsh expedition of 1277, receiving from the English king lands in North Wates, but in 1282 he made peace with Llewelyn and suddenly attacked the English garrisons, a proceeding which led to Edward's final conquest of Wales After Llevelyn's death in December 1282 David maintained the last struggle of the Welsh for independence. All his efforts, however, were vain, in June 1283 he was betrayed to Edward, was tried by a special court and sentenced to death, and was executed with great barbarity at Shrewsbury in October 1283. As the last native prince of Wales, David's praises have been sung by the Welsh bards, but his character was not attractive and a Welsh instorian says "his life was (See Wales, History.) the bane of Wales

DAVID, FÉLICIEN (1810-1876), French composer, was born on April 13, 181c, at Cadenet (Vaucluse) He was a precocious child and composed a string quartet at the age of 12. He was educated at the Jeruit college at Aix, and became choirmaster at St Sauveur at Aix for a year. He then studied for a while at the Paris Conservatoire. In 1831 he joined the sect of Saint Simonians, and in 1833 travelled in the Near East in order to preach the new doctrine After three years' absence he returned to France and published a collection of Oriental Melodies for the planoforte For several years he worked in retirement, and wrote two symphonies, some chamber music and songs. On Dec 8, 1844, he suddenly leapt into fame with his symphonic ode Le Désert, produced at the Conservatoire In this work David attempted in simple strains to evoke the majestic stillness of the desert Notwithstanding its title of "symphonic ode." Le Désert, has little in common with the symphonic style. What distinguishes it is a certain naivete of expression and an effective onental colouring His succeeding works, Moise au Sinai (1816). Christophe Colomb (1847) L'Éden (1848), scarcely bore out the promise shown in Le Désert. David produced several operas La Perle du Brésil (1851), Herculonum (1859), Lalla-Roukh (1862), Le Saphar (1865). He died at Saint-Germain-en-Laye on Aug 29, 1876 At a time when the works of Berlioz were still unappreciated by the majority of people, David succeeded in making the public take interest in music of a picturesque and descriptive kind Thus he may be considered as one of the pioneers of modern French musical art

See R Brancour, Félicien David (1911), with full hibliography

DAVID, GERARD [GHERART DAVIT] (?-1523)' Netherlands painter, born at Oudewater, in Holland, was the last great master of the Bruges school. He was only rescued from complete oblivion in 1860-63 by W. J. H. Weale, whose researches in the archives of Bruges brought to light the main facts of the master's life. David came to Bruges in 1483, presumably from Haarlem, where he had formed his early style under the tuition of Ouwater, he joined the gild of St. Luke at Bruges in 1484, and became dean of the gild in 1501; he married, in 1406. Cornelia Choop, daughter of the dean of the Goldsmiths' gild; became one of the leading citizens of the town; died on Aug 13, 1523, and was buried in the Church of Our Lady at Bruges.

In his early work he had followed the Haarlem tradition as represented by Dirck Bouts, Ouwater and Geertgen of Haarlem, but already gave evidence of his superior power as colourist. To this early period belong the 'St. John' of the Kaufmann collection in Berlin, and 'St. Jerome" in the Salting collection (National Gallery, London). In Bruges he studied and copied masterpieces by the Van Eycks, Van der Weyden, and Van der Goes, and came under the direct influence of Hans Memlinc. From him he acquired the intensity of expression, the increased realism in the rendering of the human form and the orderly architectonic arrangement of the figures. In 1515 he visited Antwerp, and became impressed with the life and movement in the work of Quentin Matsys, who had introduced a more intimate and more human conception of secret themes. David's "Picta in the life Mational Gallery and the "Descent from the Cross, in the

e a Ir v e grest al cr-jubble 1. account by him before the well to Antwerper're. More ere of Cons. the clinical with or the Signanoren telection; and those spaces to be got only Berling it A. Comells and Am-'3 mil

temps hereve monograph on Gets a David ras his School (Mamit F Bruskrann, organier win a carelogue cassonne of his notes Thich, liter careful silting, are reduced to as

DAVID, JACQUES LOUIS (1743-1825) French painter. Fas born in Pans on April 30 1748. His father was killed in a ' dual when the boy a is but one years old. His education was begun at the Codégo des Quatro Nations, but he was soon placed [by his guardian in the sautio of François Boucher Boacher recemmended him to J. M. Vien, the pioseer of the classical reaction in painting. Under him David studied for some years, and, after several a tempts to win the brit de Rome, at last succeeded in ! 1775, wata his Loves of Antiocaus and Stratonice." He then recompanied Vien who but just been appointed director of the brench academy at Rome. The classical reaction was now in full ude, Winckelmern was writing Raphael Mengs painting, and the treasures of the Vattoun gailenes belied to confirm David in a taste already mounded by so many kindred influences. This i severely Passical Spirit inspired his first important painting "Date abotum Be kara exhibited at Paris in 1780. The picture exactly suited the temper of the times, and was an immense success. It was followed by The Grief of Andromathe (1783), "The Oath of the Horarn '(Salon, 1785), 'The Death of Socrates," 'Love of First and Helen (1788), "Brutus" (1789) In the first years of the revolutionary movement the fashion of imitating the ancients even in dress and manners went to the most extravagant length and it was at this time that David returned to Paris

The success of his sketch for the picture of the "Outh of the Tennis Court' and his pronounced republicanism, secured David's election to the Convention in Sept 1702, by the Section du Museum, and in the January following his election into the Convention his vote was given for the king's death. David's revolutionary ideas, which led to his election to the presidency of the Convention and to the committee of general security, inspired his pictures "Last Moments of Lepelletter de Saint-Fargeau" and "Marat Assassinated" He also arranged the programme of the principal republican festivals. When Napoleon rose to power David became his enthusiastic admircr. His picture of Napoleon on horseback pointing the way to Italy is now in Berlin. During this period he also painted the "Rape of the Sabines," and "Leonidas at Thermopylae." Appointed painter to the emperor David produced the two notable pictures "The Coronation" (of Josephine), and the "Distribution of the Eagles."

On the return of the Bourbous the painter was exiled with other regicules, and retired to Brussels, where he again returned to classical subjects: "Amor quitting Psyche." Mars disarmed by etc. He rejected the offer, made through Baron Humboldt, of the office of muister of fine arts at Berlin, and remained at Brussels till his leath on Dec 20, 1825.

It is difficult for a generation which has witnessed another complete revolution in the standards of artistic taste to realize the secret of David's immense popularity in his own day. Yet he exercised in his time and generation a great influence. His pictures are magnificent in their composition and draughtsmanship; and his keen observation and insight into character are evident, espeually in his portraits, notably of Madame Récamier, of the Conventional Gérard and of Boissy d'Anglas

See E. J. Delecture, Lexis Dovid, son école et son temps (1855), and Le Pernère Louis David Souvenirs et documents inédits, by J. L. Jules David, the painter's grandson (1880); L. Rosenthal, David (p964).

DAVID PIERRE JEAN 1 89- 2 5 u ually called Da d 1. I reach scuiplet was sorn at Angers on March 12 1-50 and died in Paris on Jan 4, 1850. The son of a carver, he went to Paris at 17 with 11 frames in his pocset to study under St Catherne at the November the trity of the Mark Round After a year and a half's struggle he received a small atoma Estimate and Sunts of the Brance-Sam concertion in community from the minimality of Angers, and in 1811 won the prev de Rome and was sent to Italy, where he worked for some time above all the "Modern with Angles and Surves at Rough Or in Canona's studio. Returning to Paris in 1816 after a short visit to London, he received many important commissions. He rosius Beneva Lub. La importance. An organher Familia paint- vas in revolt against the prevailing classical style, and one of his confidence in Pariant and Mahara ware to some degree influenced unsu works in Paria, the Condé at Versailles, shows the new tendency towards a more realistic method. In 1827 he visited Electrical Frances who Boder access published in 1403 a very a England and in 1828 and 1834, Germany Always a Radical in posities he had to leave France for a short period after the Coup Hetri of Dec 1851. Many of the most famous men and women of his time sat to David for busts or medallions. A nearly complete collection, originals or copies, is to be seen in the Musée David at Angers Among David's most important works are, the scarptures on the pediment of the Pantheon, showing the principal personages in France since the Revolution grouped round a figure of 'La Patne', the Gutenberg monument at Strasbourg, the monument to General Gobert in Pere Lachaise, the "Philopoemen" in the Louvre, and the bust of Goethe, presented by tim to the poet in 1831, in the public library at Weimar.

> See H Jouin. David d'Angers et ses relations litéraires (1800). Lettres de l' J David d'Angers a Louis Dupré (1891); Collection de portraits des contemporains d'apres les médailons de P J David (1838).

> DAVIDISTS, a fancy name rather than a recognized designation for three religious sects. It has been applied (1) to the followers (if he had any) of David of Dinant, in Belgium, the teacher or pupil or Amalric (Amoury) of Bena, both of whom taught apparently a species of pantheism. David's Quoterni, or Quaternuli, condemned and burnt at Paris (1209), is a lost book, known only by references in Albertus Magnus and Thomas Aquinas, its author would have been burnt had he not fled (2) To the followers of David George or Jorns (q.v) (3) To the followers of Francis Dávid (1510-79), the apostle of Transylvanian unitariadism (see Socinus, Unitarianism)

> DAVIDOVIC, LJUBOMIR (1863tician, was born at Vlaska in Serbia. In 1901 he entered parliament and, the next year, with Ljubomir Stojanović founded the Independent Radical party In 1904 he became Minister of Education, in 1905 President of the Skupština and in 1909 mayor of Beigrade In that year he was one of the Serbian witnesses at the Friedjung trial in Vienna, and soon afterwards Prof Masaryk laid before the Austrian delegation the papers on which the forgers had practised Davidovic's signature. In the Serbian Coalition cabinet, formed during the Austrian invasion in Nov 1914. Davidovic again became Minister of Education, but in 1917 he resigned office and remained in active opposition to Pasic throughout the remainder of the World War In 1919 he was elected chief of the newly formed Democratic party and was Yugoslav premier from August of that year until Feb 1920 In later years he adopted a conciliatory attitude towards the Croats, and condemned the policy of extreme centralization. In July 1924 he again became Prime Minister at the head of a coalition of Democrats, Slovene Clericals and Bosman Moslems, supported by the Croat peasants. He was however, unable to maintain himself in office, and was replaced, in Oct 1924, by a purely Radical Government under Pasic.

> DAVIDSON, ANDREW BRUCE (1831-1902) Scottish divine, was born in 1831 at Kirkhill, Aberdeenshire, where his father, Andrew Davidson, had a farm. During his four years at Aberdeen university his mother supplied him fortnightly with provisions from the farm and sometimes walked the whole 20 miles from Kirkhill, handing the coach fee to her son. He graduated in 1849 In 1852, after three years as a schoolmaster, he entered New college, Ecinburgh, and was licensed to preach in 1856 For two years he preached occasionally and took vacanties. In 1858 he became assistant professor of Hebrew at New college. He taught during the winter and in the long vacation continued his

preparation for his life work. One year he worked in Germany in der Ewald, and her year he wen to Syr a to sludy Arabic. In 1862 he published the first part of a commentary on Job. It was never mushed and deals only with one-third of the book, but it is recognized as the first really scientific commentary on the Old Testament in the English language. In 1863 he was appointed by the General Assembly professor of oriental languages at New college. He was junior colleague of Dr. John Duncan (Rabbi Duncan) till 1870, and then for 30 years sole professor. He was a member of the Old Testament revision committee. He died on Jan 26, 1902.

Besides the commentary on Job he published a book on the Hebrew Accents, the only Scottish performance of the kind since the days of Thomas Boston. His Introductory Hebrew Grummar has been widely adopted as a class-book in theological colleges. His Hebrew Syntax has the same admirable clearness, precision and teaching quality. His Commentary on the Epsile to the Hebrews is one of a series of handbooks for Rible classes. These were followed by commentaries on Job, Ezekiel, Nahum, Habakkuk and Zephaniah, in the Cambridge series, and a Bible-class primer on The Enle and Restoration. His lectures on Old Testament Prophecy were published after his death by Prof. J. A. Paterson. The Theology of the Old Testament in the "International Theological Library" is a posthumous volume educed by Prof. Salmond, "Isaish" in the Temple Bible was finished, but not revised, when he died, and he also had the volume on Isaiah for the International Critical Commentary, to which must be added a mass of articles contributed to the Imperial Bible Dictionary, the Encyclopædia Britannica and the chief religious reviews. Various articles in Dr. Hastings' Bible Dictionary were by Davidson, including the article "God". Two volumes of sermons, The Called of God (with biographical introduction), and Waiting upon God, were published after his death.

DAVIDSON, JOHN (1857-1909), British poet, playwright and novelist, son of the Rev Alexander Davidson, a minister of the Evangelical Union, was born at Barrhead, Renfrewshire, Scotland, on April 11, 1857. In 1876 he studied for a session at Edinburgh university, and then went as a master to various Scottish schools till 1890, varying his experiences in 1884 by being a clerk in a Glasgow thread firm. He had married in 1885, and meanwhile he had published his poetical and fantastic plays, Bruce (1836), Smith, a tragic farce (1888) and Scaramouch in Naxos (1880). Determining at all costs to follow his literary vocation he went to London in 1890. Fleet Street Ecloques (1893) at once established Davidson's position among the younger generation of British poets. He produced other books in prose, but his most important work is found in his Ballads and Songs (1894). Second Series of Fleet Street Ecloques (1895), New Ballads (1896), The Last Ballad, etc. (1898), all full of remarkably fresh and unconventional beauty. Meanwhile, in 1896, he produced an English verse adaptation in For the Crown (acted by Forbes Robertson and Mrs. Patrick Campbell), of François Coppée's drama Pour la couronne, and he wrote several other literary plays In later years he lived at Penzance, provided with a small Civil List pension, but otherwise badly off, for his writings brought in very little money On March 23, 1909, he disappeared, in circumstances pointing to suicide, and six months later his body was found in the sea

DAVIDSON OF LAMBETH, RANDALL THOMAS DAVIDSON, 19T BARON (1848-1930), English divine, archbishop of Canterbury, 1903-28, was with King Edward VII. at his death in 1910, and he crowned King George V in 1911 He was one of the four counsellors of State who acted as His Majesty's Commission when the King went to India in 1911, and again in 1925 when the King went to the Mediterranean after illness. During the whole of this period he took a leading part as ! spokesman of the national Church in the House of Lords. Lord Morley bore public witness to the effectiveness of his intervention in the critical debate on the Parhament Act in 1914 He made important contributions in debates on temperance, divorce and various social and moral questions. His influence was also constantly and successfully exerted in matters affecting the welface of native races; eg., in Kenya, and he made notable appeals on behalf of Christian minorities in the East. In his educational policy he has steadily supported definite religious instruction in all schools, by teachers willing to give it.

Trusted by Englishmen of all classes for his wisdom and good-

ness the archo shop commanded the conndence of Free Churchmen to a greater degree than any of his predecessors. He had a peculiarly analous task during the World War. On more than one occasion he lifted up his voice against reprisals which had "as a deliberate object the killing and wounding of non-combatants Twice he visited the troops in France. In 1916 he placed himself at the head of a national mission, which aimed at the deepening of religious life at home. At an early date he gave public support to the proposals for a League of Nations, and it was recognized as specially fitting that he should preach the sermon at the opening of the third Assembly in Geneva 1922 In 1922 Dr Davidson took the lead in issuing a vigorous protest signed by the leaders of the Angluan, Roman, Free Church and Jewish Communions, against religious persecution in Russia. In 1923 he made a successful public appeal for the retention of the Oecumenical patriarchate at Constantinople.

The archbishop also took a deep interest in the work of the Church overseas. He presided over the sixth Lambeth Conference in 1920, attended by 252 out of the 368 bishops of the Anglican Communion, and throughout the deliberations adopted a strong forward-looking attitude. After the issue of the appeal to all Christian people by that conference he took a prominent part in securing widespread consideration of the proposals for the reunion of Christendom which it contained He actively forwarded conferences with the Free Church representatives in England, a senes of important meetings being beld at Lambeth Palace. He further expounded the appeal to the General Assembles of the Church of Scotland, and the United Free Church of Scotland in 1921 In addition, the archbishop markedly developed friendly relations between the Anglican and Orthodox Churches, and it was to him that the Patriarch (Meletios IV.) of Constantinople communicated his Synod's acceptance of the validity of Anglican ordinations in 1922. He also took "cognizance" of the conversations between Anglican and Roman Catholic theologians held at Malines (1921-25) under the presidency of Cardmal Mercier; Pope Plus XI. taking a similar "cognizance."

He was mainly instrumental in securing the passage into law of the Church Assembly (Powers) Act, 1919, and from 1920-28 presided over the Church Assembly with wisdom and courage During this period a large number of measures were passed. But the principal measure, dealing with Prayer Book revision, was rejected by the House of Commons on Dec 15, 1927 This situation, however, afforded an opportunity for an extraordinary outburst of admiration for the archbishop personally in all sections of the community. In Feb. 1928 he completed the 25th year of his primacy—a primacy longer than any since Archbishop Warham. He displayed a remarkable combination of sincere piety, common sense, loyalty to truth and sympathy with modern movements. He resigned Nov. 1928, was succeeded by Dr. Lang, and was created a baron. He died May 25, 1930. (G. K.A.B.)

DAVIDSON, SAMUEL (1807-1898), Irish biblical scholar, was born near Ballymena. He became in 1842 professor of biblical criticism, literature and oriental languages at the Lancashire Independent college, Manchester, but was obliged to resign in 1857, on account of The Text of the Old Testament, and the Interpretation of the Bible, written for a new edition of Horne's Introduction to the Sacred Scripture. In 1862 he removed to London to become scripture examiner in London university, and he spent the rest of his life in literary work. He died on April 1, 1898. Davidson was a member of the Old Testament Revision Committee.

Among Davidson's principal works are:—The Hebrew Text of the Old Testament Revised (1855), Introduction to the Old Testament (1862). On a Fresh Revision of the Old Testament (1873), The Doctrine of Last Things in the New Testament (1883), besides translations of the New Testament from Tischendorf's text, Gieseler's Ecclesiastical History (1846) and Furst's Hebrew and Chaldee Lexicon.

DAVIDSON, THOMAS (1817-1885), British palaeontologist, born in Edinburgh on May 17, 1817, was educated partly in the University of Edinburgh and partly in France, Italy and Switzerland. His Monograph of British Fossil Brachiopoda was published by the Palaeontographical Society (1850-86. 6 vols with 200 plates) He also prepared an exhaustive memoir on "Recent

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DAVIES, ARTHUR B. (1862-1926) American punter was constituted NV on Sept as, 1861. He vis a pupil of Dwight Williams at Utica afterwards studying in New York and Chicago ese their and berent of the Roman it selected of princing and ort. Mart, Muror of Idastons in the In Institute Chicago, "product to a Valley" and "Night Overlure," in the Minneapous Institute of Art; and "The Place of the Motor" and "Children of Yesterday" in the Branslyn museum. In 192, his picture, After-Thoughts of Earth produced for him from the Carnegie Trust a media of the first class and Si,500. He died in Italy on . Oct. 24 1928

DAVIES, SIR HENRY WALFORD (1869-), knighted 1902 English organist and composer, was norm at Osnestry Salop on Sept 5, 1869, and educated privarely. In 1331 he becarie a churister at St. George's chapel. Windsor and in roes assistant organist to Sir Walter Parratt there. From 1890-94 he was pupil and scholar at the Royal College of Music, where, m 1895, he become a teacher of counterpoint. In 1898 he was appointed organist to the Temple course, a post which he held I until 1923 From 1903-of he was conductor of the London Buch choir in succession to Stanford and from 1919-06 professor of music in the University college of Wales at Aberysiwith During the World War, with the rank of major, he worked for the organization of music among the troops, and in 1918 was made director of music to the RAF. In 1919 he was appointed director of music and chairman of the National Council of Music, University of Wales, in 1924. Gresham professor of music; and in 1927, organist of St George's chapel, Windsor.

His compositions include two symphonies; and in the way of choral works. Everymon, a felicitous setting for coorus and orchestra of the old morality play, which has enjoyed wide favour, Ode on Time (1903); The Sayings of Jesus (1911), Dante Factasy (1914), and Heaven's Gate; in addition to a outsatty of church music, chamber music, part songs, etc. Over and above his creative work, Walford Davies has been for many years one of the most prient and stimulating forces (not least by means of his immensely popular wireless talks) in musical education in England; to which it may be added that he has conembuted the article on Music Traching to the present edition

of this Encyclopedie.

DAVIES, HUBERT HENRY (1876-1917), English playwright, was born in Cheshire on March 17, 1876 After some years of Juanualism in San Francisco, where he also produced a few varilevilles, he returned to England and made a success in London with Cousen Kate and Mrs Gorringe's Necklace Among his other cornedies were The Mollusc (1907) and Doermats ingent He produced The Outcast (1914) His health broke down as the result of overwork in France as a hospital orderly during the World War, and he was found dead at Robin Hood's

boy, Yorks, on Aug. 15, 1917.

DAVIES, SIR JOHN (1569-1626), English poet, was baprized on April 16, 1569, at Tisbury, Wiltshire. He was educated at Windester college, and became a commoner of Queen's college Oxford, in 1585. In 1588 he entered the Middle Temple, and was valuate, All Orad's Elegies | Butter vic W harry at 1 . D (Middleburgh, 15083), who was and we make my my Marketo. The epigrapes or a circled. event a control control position than the charming was out our left to him time 1150), i written in praise of dancing and their court one and are tarp friend, Master Richard Mer 22 "x 11702 Leve one the season quartered, and Davies was experient from the recipity for having

ed of his oh cook al poem on the nature of the soul and its immor tainty-Nosce telprum (1599) Its force, eloquence and ingenity, the orderly and lucid arrangement of its matter, place it among the finest of English philosophical poems. In 1509 Davies pub lished a volume of 10 acrostics on the words Elisabetha Reeina entitled Hymns to Astraea. He produced no more poetry except tu a dialogues contributed to Francis Davison's Poetical Rhapsody , 12003. In 1901 Davies was restored to his position at the bar. made routine contains in the fields of earling and colour- after include his appropriate to Martin, and in the same year he Sthography Among his more imperious works are "Dream" and I sat for Corfe Castle in parliament. James I received the author The childs it Area," in the Metrow, for Museum, New York of Nosce terpsum with great favour, and sent him (1605)" to Ireland as sometor-general, he was knighted in the same year In 1606 he was promoted to be attorney-general for Ireland, and created serjeant-at-arms. One of his chief aims was to establish the Protestant religion firmly in Ireland, and he took an active part in the "plantation" of Ulster In 1612 he published his prose Discoverie of the true causes why Ireland was never entirely subdued with the beginning of his Majestie's happie raigne (ed H Morley in his Ireland under Elizabeth and James I [1890]). In the same year he entered the Irish parliament as member for Fermanagh, and was elected speaker after a scene of disorder in which the Catholic nominee, Sir John Everard, who had been installed, was forcibly ejected. In the capacity of speaker he delivered an excellent address reviewing previous Irish parhaments. He resigned his Irish offices in 1610, and sat in the English parliament of 1621 for Newcastle-under-Lyme. With Sir Robert Cotton he was one of the founders of the Society of Antiquaries He was appointed lord chief justice in 1626, but died suddenly before he could enter on the office. He had married (1609) Eleanor Touchet, daughter of George Baron Audley She developed eccentricity verging on madness and wrote several fanatural books on prophecy

BIBLIOGRAPHY —In 1615 Devies published at Dublin Le Primer Discours des Cases et Matiers in Ley resolues et adjudges en les Couris del Ruy en cest Realme (reprinted 1628) He issued an edition of his poems in 1622 His prose publications were mainly posthumous. The Question concerning Impositions, Tonnage, Poundage was printed in 1650, and tour of the tracts relating to Ireland, with an account of Davies and his services to that country, were edited by G Chalmers in 1786. His works were edited by Dr A B Grosart (1869-76), with a full biography, for the Fuller Worthies Library, also by H Morley for the "Carisbrooke Library" (vol. x. 1889). Nosce telpsum is

printed in Arber's English Garner (vol. v. 1881),

DAVIES, JOHN, of Hereford (1565-1618), English poet, was born at Hereford and settled in Oxford as a writing master. His principal work is the Microcosmus (1603), modelled largely on Joshua Sylvester's translation of the Semaines of Du Bartas

Among other works are —Mirum in modum (1602), The Holy Roode (1600) Wittes Pilgrimage (c. 1010). The Scourge of Folly (c. 1011), The Muses Sucrifice (1012), and Wittes Bedlam (1607) His Scourge of Folly contains verses addressed to many of his contemporanes, to Shakespeare among others. He also wrote A Select Second Husband for Str Thomas Overbury's Wife (1616), and The Writing Schoolmaster (earliest known edition, 1033). His works were collected by Dr. A. B. Grosart (1873) for the Chertsey Worthies Library.

DAVIES (Davisius), JOHN (1679-1732), English classical scholar and critic, was born in London. He was president of Queen's college, Cambridge, and was considered one of the best commentators on Cicero. He edited the Tusculance disputctiones (1709), De natura deorum (1718), Do divinatione and De fato (1725), Academica (1725), De legibus (1727), De fimbus (1728) and other works Davies's editions, which were intended to supplement those of Graevius, show a great knowledge of history and philosophy, but are too free in emendation.

DAVIES, JOHN LLEWELLYN (1825-1916), English divine and educationalist, was born at Chichester on Feb 26, 1826. He was educated at Repton and Trinity College, Cambridge, where he was made a fellow in 1851. He was ordained in the same year, and held successively several London livings. He was given the crown living of Christ church, Marylebone in 1856 and m 1889 became vicar of Kuthy Lousdale Westmorland where he transferd total 1908. Davies was closely with John

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of the Working

a 4 from 1873 4 and 18 8-36 was principal of Queen's Colege Ha ley street rounded by Maurice r 34 or the ad an ement of women's education. De les was an advocate of the higher education of women, a cause in which his sister, Sarah Emily Davies (qv), was also prominent, and favoured the granting to women of university degrees and the Parliamentary franchise He died at Hampstead on May 17, 1916 With Vaughan he produced the well-known translation of Plato's Republic.

DAVIES, SIR LOUIS HENRY (1845-1924), Caradian politician and jurist was born in Prince Edward Island in 1845, of Huguenot descent. In 1882 he entered the Canadian parliament as a Liberal, and from 1896 to 1901 was minister of marine and fisheries. In the latter year he became one of the judges of the supreme court of Canada. In 1877 he was counsel for Great Britain before the Angle-American fisheries arbitration at Halifax, in 1897 he was a joint delegate to Washington with Sir Walfred Laurier on the Bering sea seal question, and in 1898-99 a member of the Anglo-American joint high commission at Quebec. In 1918 he became chief justice and a member of the privy council He died at Ottawa on May 1, 1924

DAVIES, RICHARD (c. 1505-1781), Welsh bishop and scholar, was born in north Wales and educated at New Inn Hall, Oxford, becoming vicar of Burnham, Bucks., in 1550 He took refuge at Geneva during the reign of Mary In Jan. 1560 he was consecrated bishop of St Asaph, whence he was translated, early m 1561, to the bishopric of St. Davids Davies was a member of the council of Wales, was very friendly with Matthew Parker archbishop of Canterbury, and was consulted both by him and by Burghley, on Welsh concerns He took part in translating the New Testament into Welsh, and assisted with the Welsh translation of the Book of Common Prayer He helped to revise the "Bishops' Bible" of 1568, being responsible for Deuteronomy and 2 Samuel. He died on Nov. 7, 1581.

DAVIES, SARAH EMILY (1830-1921). Brnish educationalist, sister of John Liewellyn Davies (qv), was born at Southampton on April 22, 1830. She was educated at home, and later identified herself with the movement for the higher education of women, being also one of a group of women who, about 1858, were discussing the question of women's suffrage at the Kensington Society In 1862 she became secretary to the committee which was formed to procure the admission of women to university examinations. In 1867, Miss Davies, with the help of Mme Bodichon (Barbara Leigh Smith) and others, organized a women's college at Hitchin, which was subsequently transferred to Cambridge as Girton college in 1873 From 1870 to 1873 she was a member of the London School Board and withdrew to become mistress of Girton college, Cambridge, a post which she held for two years. In 1873 she was elected a life governor of University college, London, and in 1982 became honorary secretary of Girton college, retiring in 1904. She died in London on July 13. 1921 She published The Higher Education of Women (1886), and Thoughts on Some Questions Relating to Women *1860-1908* (1910).

Sec B. Stephen, Emily Davies and Girton College (1927)

), British poet. DAVIES, WILLIAM HENRY (1871born at Newport Monmouth, April 20, 1871. After serving as apprentice to a picture-frame maker he tramped through America, crossed the Atlantic many times on cattle boats, became a pedlar and street singer in England, and after eight years of this life published his first volume of poems, The Soul's Destroyer, from the Marshalsea prison Next year appeared in prose The Autobiography of a Super-Tramp (1908) with a preface by G Bernard Shaw, and also Nature Poems and Others. Collected editions of his poems appeared in 1916 and 1924. His poetry includes: Forty New Poems (1918); The Hour of Magic, and Other Poems (1922); A Poet's Alphabet (1923), The Song of Love (1926) He also published a novel, A Weak Woman (1911), and volumes of nature studies and essays, including A Poet's Pügrimege (1918), Later Days (1925) and The Adventures of Johnny Walker Kamp (1926); Calbected Poems of W. H. Davies (1929).

reducte ancestors had been constables of the kingdom of Cyprus for the Venetian republic since 1464. But in 1570 the island was taken by the Turks, and Antonio Davila, the father of the historum had to leave it despoiled of all he possessed. He travelled mto Spain and France, and finally returned to Padua, and at Sacco on Oct 30 1576, his youngest son, Enrico Caterino, was born. About 1583 Antonio took this son to France, where he become a page in the service of Catherine de' Medici, wife of King Henry II. In cite time he entered the military service, and fought through the civil wars until the peace in 1598. He then returned to Padua where, and subsequently at Parma, he led a studious lite until, when war broke out, he entered the service of the republic of Venice During the whole of this active life he never lost sight of his early design of writing the history of those civil wars in France in which he had borne a part. The success of the Istoria delle guerre c'irih di Francia was immediate and enormous Over 200 editions followed, of which perhaps the best is the one published in Paris in 1644. Davila was murdered, while on his way to take over Cremona for Verice in July 1631

The Istoria was translated into French by G Baudoum (1642); into Spanish by Varen de Soto (Madrid, 1651, and Antwerp, 1686); into English by W. Aylesbury (1627), and by Charles Cortorel (1666), and into Laim by Pietro Francesco Cornaziano (1715). The best account of the life of Davils is that by Apostolo Zeno, prefixed to an edition of the history printed at Venice in a vols in 1733

DAVIS, CHARLES HOWARD (1857-), American landscape painter, was born at East Cambridge (Mass). Feb 2 1857. A pupil of the schools of the Boston Museum of Fine Arts. he was sent to Paris in 1880 Having studied at the Academy Jahan under Lesebvre and Boulanger, he went to Barbizon and painted much in the forest of Fontamebleau under the traditions of the "men of thirty." He became a full member of the National Academy of Design in 1906, and received many awards including a silver medal at the Paris Exhibition of 1880. He is represented by important works in the Metropolitan Museum of Art, New York: the Corcoran Art Gallery, Washington, the Pennsylvania Academy Philadelphia, and the Boston Museum of Fine Arts. The Union League club in New York had an exhibition of his works in Feb 1927

DAVIS, CUSHMAN KELLOGG (1838-1900). American political leader and lawyer, was born in Henderson, NY, on June 16, 1838. He was taken by his parents to Wisconsin Territory in the year of his birth, and was educated at Carroll college, Wankesha, Wis, and at the University of Michigan, where he graduated in 1857. After studying law he was admitted to the bar in 1860. During the Civil War he served as a first lieutenant in 1862-63 and in 1864 was an aide to Gen. Willis A Gorman (1814-76) Resigning his commission in 1864, he settled in St. Paul, Minn., where he soon became prominent both at the bar and, as a Republican, in politics. He served in the State house of representatives in 1867, and was U.S district attorney for Minnesota (1868-73) In 1874-76 he was governor of the State, and from 1887 until his death at St Paul, Nov 27, 1900, was a member of the US Senate, where he was one of the acknowledged leaders of his party, an able and frequent speaker, and a committee worker of great industry. He was one of the peace commissioners who negotiated and signed the treaty of Paris by which the Spanish-American War was terminated. In addition to various speeches and public addresses, he published an essay entried The Law of Shakespeare (1899)

See sketch by W B. Chamberlam in Muligan Alamnus, vol. vo., pp 133-130 (1901).

DAVIS, HENRY WILLIAM CARLESS, CB:B (1874-1928) British historian, a son of H. F. A Davis of Stroad, Gloucestershire, was born on Jan 13, 1874 and educated at Weymouth college and Balliol college, Oxford He was a fellow of All Souls (1895-1902), and of Balliol (1902-21). During the World War he served in the Wer Trade Intelligence Department, and after attending the Peace Conference, directed the Overseas Trade Department. In 1921 Davis was appointed professor of modern history at Manchester and in very he removed DAVILA, ENRICO CATERINO (1576-1631), Italian to Oxford as regum professor of median hastery. He became in historian, was descended from a Small be family. His im addition, curator of the Bodhnan Library in 1926. He was made or a a a

E - LE Lurendin Fress Davis & bound for filed for exchanged in the median all pold and lound expression is his Engine rule rate Normical and Angrous 1908 - Meduccul Eurode (1712), a remed ed from it fae lither Chirery of Wilson Studie (1913), and Meducci England 179-41 The calendar of Anglo-Norman Royal Coomers, 1066-1154. Was not committed, owing to the cuticulty of equiting interiory assistance during the World War. Davis was able to fines with the first votage (1912)

The unamered judgment exacts no ar-bio and constructive crasi-action snown in his England under the Normans and Appeared brought him into proving more as on councerty on medithe size position held by England in the period dealt with and marks a dennite advance in his oncal scholarship. His Mediceral Europe, though showing a masterly knowledge of the period, was written rather for the general public than for the serious student brought to this work in a very civierent field the same characteristic spility and thoroughness which had made his mediaeval studies famous. He was exceptionally gifted as a tutor, particularly for those who, themselves, intended to become teachers be had gone to conduct an examination

He contributed several articles to this Encyclobadia

DAVIS, HENRY WINTER (1817-1805), American political leader, was burn at Annapolis (Md : USA., on Aug 16 1517 He graduated from the law department of the University of Virginia in 1841 and began to practice law in Alexandria (Va), but in 1850 removed to Baltimore (Md.) Early imbued with strong anti-slavery views ne began political life as a Whig, but when the Whig party disintegrated, became an "American' or "Know-Nothing" and as such served in the national House of Representatives from 1855 to 1361. In 1860, not ready to ally himself wholly with the Republican party, he declined to be a candidate for the Republican nomination for the vice-presidency After Lincoln's election, he became a Republican and was re-elected in 1862 to the National House of Representatives, in which his radical riews commanded especial attention owing to his being one of the few representatives from a slave state. From Dec 1863 to March 1865 he was chairman of the committee on foreign affairs With other radical Republicans Davis was a bitter opponent of Lincoln's reconstruction plan of the Southern States On Feb. 15, 1864, he reported a bill placing reconstruction under the control of Congress. The bill finally passed both houses but failed to receive the approval of the president who on July 8 issued a proclamation defining his position. On Aug 5, 1864, Davis jeined Benjamin F Wade of Ohio, in issuing the so-called "Wade-Davis Manifesto" which violently denounced President Lincoln for encroaching on the domain of Congress He was one of the radical leaders who preferred Fremont to Lincoln in 1864, but subsequently supported the President. In July 1865, he pubbely advocated the extension of the suffrage to negroes. He died m Baltimore (Md), on Dec 30, 1865

See The Speecher of Henry Winter Davis (1867), to which is pre-fixed an oration on his life and character delivered in the House of Representatives by Senator J. A. J. Creswell of Maryland.

DAVIS, JEFFERSON (1808-1889). American statesman. president of the Confederate States of America, was born on June 3, 1808 on a farm on the present site of Fairview. Todd! county. Ky. He was the tenth and youngest child of Samuel Davis (1755-1824), a descendant of a Welsh family that had settled originally in New Jersey and he probably was a cousin of Samuel Davies (1724-1761), president of Princeton. Samuel south-western Kentucky in 1796, thence to Louisiana about 1810 1 Feb 2 1860, and

ard in sain to Wilkinson county Miss Schooled in Kentucky and in Mississippi, Davis attended Trans sylvania college Ky., in 1821-24 entered the U.S. Military Acanerry in Sept 1821 and graduated no 23 in a class of 33, in July 1523 Afbert Sidney Johnston was in a higher class during Davis cadetship, and Robert E Lee and Joseph E. Johnston belonged to the rext jumor class. Davis remained in the army seven years. and served chiefly in Wisconsin, where a severe attack of pneumonia left nun with a tackal neuralgia that often incapacitated and scicetimes blinded him. After 1831 he was never a man of robust nearth or of a normal nervous system

Finding in 1835 that army life had become a routine, Davis resigned his commission as lieutenant and after marrying Sarah Level majory. This work was remarkable for its appreciation of ! Knox Taylor, daughter of Col. Zachary Taylor, started as a cotton-planter in Mississippi His young bride died within three months of their marriage, and he spent the next ten years of his bie on his plantation with his leisure devoted to hard reading, He soon developed a system that was almost a model in the After the curpress of war, Davis's writings on subjects connected | relations of master and slaves. He gave the servant community with modern collides shought The Political Thought of Trest, a large measure of self-government and left in its hands, through school [1914] and various articles' remainstrated his skill in the an interesting jury system the trial of all petry offenders. His demacan of character and the exposition of policy, and he cown experience shaped his views, knowing that his negroes were well-fed happy and advancing he could not believe the evil alleged against slavery

An unsuccessful candidate of the legislature in 1843 and a Democratic presidential elector in 1844, Davis was elected to the Davis died of pneumoma on June 28, 1923 in Edinburgh where US House of Representatives in 1843. He was married that same year to Varina Howell (1828-1907), granddaughter of Gov Richard Howell of New Jersey His service in Washington had hardly begun when the war with Mexico broke out and be was named colonel of the First Mississippi Infantry. He resigned from Congress in June 1846, and speedily had his troops well drilled and ready to join in the advance of the army under Gen Zachary Taylor Davis and his regiment acquitted themselves well in the battle of Monterey Sept 21-23, 1846, and when Taylor's reduced force was attacked at Buena Vista on Feb 22, 1847, a stand by the Mississippians saved the day for the American forces and made Davis something of a national figure. He was wounded in this battle and was forced to return to Mississippi, in the company of his troops, whose term of enlistment had expired He declined President Polk's complimentary commission as brigadier-general of volunteers on the ground that officers of volunteers should be named by the States, but in Aug 1847 he accepted appointment to the United States Senate and soon was named chairman of its committee on military anairs. In 1851 the Democrats of Mississippi prevaled upon him, in the party's interest, to become a candidate for governor. He was defeated by a narrow vote and was again in retirement for 18 months, but upon the inauguration of Franklin Pierce in 1853. he became secretary of war and served for tour years. During this time he strengthened the coast-defences, enlarged the army, directed valuable surveys for a railroad to the Pacific, introduced various betterments at West Point and experimented with the use of camels as draft animals in the West. Expansionist plots in Cuba and in Nicaragua were supposed to have his support President Pierce's endorsement of the repeal of the Missouri compromise was probably the result of Davis' influence with him.

Davis re-entered the United States Senate on March 4, 1857, but an affection of the eyes limited his activities for nearly two years In 1859-60 he was one of the foremost leaders of Southern Democrats in opposition to Stephen A Douglas During his first term in the senate (1847-51) he had argued that all the terrutories should be opened to slavery, but he had been willing to accept an extension of the line of the Missouri compromise to the Pacific. After the verthet of the Supreme Court in the Dred Scott case, he became more aggressive in his views of Southern rights and repudiated Stephen A Douglas' doctrine of squatter sovereignly He asserted that Congress had no right to deny Davis was born in Georgia, was a captain of infantry in the admission to the Union to any territory because of the existence American revolution and subsequently was a planter. He married or non-existence of slavery which he now frankly defended. His Jane Cook (1759-1844) of Scotch-Irish stock. They moved to opinions were fully set forth in a series of resolutions offered on tly adopted. He did his utmost to

DAVIS 85

ore ent the nom nat or of Douglas for the pres den por ed Brecking dge and Lane, though he did not cam ass for

Always a believer in the right of secession. Davis had favoured a convention of the Southern States in 1851, to consider what action they should take on the compromise of 1850, but until after the election of Lincoln in Nov. 1850 he never felt that i circumstances justified a withdrawal from the Union. The victory of the party opposed to slavery, the uncompromising attitude of the Republican senators, and the unwillingness of President Buchanan to concede the right of a State peaceably to leave the Union, combined in the early winter of 1860-61 to convince Davis that the South in self-protection should exercise its right of secession and should form a separate confederation. He united with six other senators from the cotton States in an historic declaration to this effect. At the instance of his colleagues he consented to serve on the "committee of thirteen" that sought a lastminute settlement of slavery, but when he found that the Republican members would accept no compromise, he voted against the committee's report. Although he believed further efforts at accommodation were futile, he intervened in South Carolina's behalf in an attempt to have the Federal garrison withdrawn from Charleston harbour Then, following the secession of his own State, he bade farewell to the senate on Jan 21 1861, in a moving address

CIVIL WAR CAREER

Designated commander of his own State's troops, Davis hoped for a military career in case of war. Instead, to his surprise and regret, he was unanimously chosen by Congress provisional president of the Confederate States Feb 9, 1861. He was maugurated at Montgomery, Ala., on Feb 18, 1861, was formally elected by the people on Oct 16, 1861 was again inaugurated, this time at Richmond. Va , under the "permanent constitution" on Feb 22. 1862, and was holding the office of president when the Confederacy collapsed

Selecting a cabinet of moderate views and of no more than moderate ability, Davis sought to negotiate for a withdrawal of the Umon troops from military posts in the South, and he did not order military operations to be opened at Charleston, SC, in April 1861, until he was convinced that the Lincoln administration had sent an armed expedition to revictual and reinforce the garrison of Ft Sumter

The easy victory of the Confederates at Bull Run, on July 21, 1861, misled the South into believing that its independence would be won without great effort. Even Davis himself, who had warned the Confederary of the magnitude of its task seems to have been so deluded in the summer of 1861 by the hope of speedy toreign intervention that he did not capitalize the war ardour of the first months of the struggle. Events of the winter of 1861-62, however, spurred him to a vigorous policy. He procured the passage of a conscription law, and although the South had only one rollingmill of any consequence, he contrived to manufacture cannon in sufficient numbers. Side-arms, powder, uniforms and quartermasters stores were obtained in a country that had few facilities for making them. A navy was constructed in improvised yards and by secret, adroit purchase abroad. The war was financed on fiat money The feeble disjointed transport system of the South was welded together and was made to serve.

The results of hard effort, coupled with the fortunate choice of good commanders, showed during 1862 in a series of brilliant victories in Virginia It was otherwise on the Mississippi Friction among rival generals and a lack of co-ordination led from disappointment to disaster. A visit of Davis to the threatened front in Dec. 1802 failed to change the situation. The next year he decided on an offensive in the East in preference to reinforcement of the army on the Mississippi. It was his most momentous decision and perhaps his greatest blunder, because the Eastern offensive failed at Gettysburg and the very next day, by the fall of Vicksburg, the Confederacy was cut in half

In 1864, Lee maintained a successful defensive in Virginia,

and after but a Tennessee and Georgia conditions went from bad to worse he sput in the Democratic con en on a Charicston h sup- Davis had delayed too long in removing the unsuccessful Braxton Bragg and after he at last relieved Bragg of command of the Army of Tennessee, he offended public opinion by making him his chief military advisor. On July 17, 1864 when Sherman was close to Atlanta, Davis supplanted Joseph E Johnston by John B Hood This most ruinous change led to the speedy breakup of the only army that stood in the way of Sherman's march to join Grant, who by this time had pinned Lee to the Richmond defences. The reaction against Davis who was blamed for all this, was immediate and severe Congress no tonger sustained him the governors of North Carolina and of Georgia were openly antagonistic the press denounced him, and Robert E. Lee would probably have been named dictator in Davis' place if Lee had been willing to counterance a revolution within the Confederacy The failure of the Hampton Roads conference, on Feb 3, 1865, to find any basis of peace, filled out the measure of Davis' unpopularity.

Days was perhaps too harshly judged by his contemporaries. He never had a general mulitary policy. He was too prone to take the course of immediate safety. After the removal of the Confederate capital to Richmond, in May 1861, he laid too much emphasis on the defence of Virginia to the neglect of other parts of the Confederacy He acted on occasion as his own chief of staff, and then, with no apparent reason for change, he left his field commanders entirely to their own discretion. He became so absorbed in operations that he neglected the commissary and transport Above all, he was not a good judge of men when his affection, his pride or his prejudice were involved, though it must be remembered to his credit that he kept his faith in Robert E. Lee at a time when the press and the country decreed Lee a failure because of his unsuccessful campaign in Western Virginia Criticism sometimes aroused in Davis a dangerous obstinacy. He could not brook open opposition and he was singularly sensitive This last-named had quality, his coldness and his personal dignity kept him from making an effective appeal to the emotions of his people. He was unhappy in his dealings with a short-sighted, contentious congress, and he was maladroit in his foreign relations, particularly with France. His loyalty to his friends was so extreme as to be a positive vice. But against all his failings is to be set the fact that the agricultural South, with resources vasily inferior to those of the North, kept up the struggle for four years Perhaps the strongest single force in that defence, when all is said, was Jefferson Davis

On the evacuation of Richmond, April 2-3, 1865, Davis removed the executive offices to Danville, Va., and thence to Greensboro N.C. Journeying southward in the hope of reaching the Trans-Mississippi department, he was captured near Irwinville, Ga, on May 10, (805, and was transported to Ft. Monroe, Va He was confined there, under threat of a trial for treason, until May 4, 1867, when he was admitted to bail and was allowed to go to Canada During the early part of his imprisonment he was manacled and subjected to severities that impaired his health. This maltreatment, and the effort of the North to make him a scapegoat, won for him the sympathy of the South and restored him to his former place in us affection Although he was twice indicted for treason, the proceedings were dropped after the general amnesty proclamation of Dec. 25, 1868. He subsequently visited Europe, served for a time as president of an insurance company and then retired to Belvoir the home of an admiring friend in Mississippi, where he wrote his Rise and Fall of the Confederate Government in two volumes (1881). This is an excellent review of the constitutional questions underlying secession but is in many respects a singularly reticent account of his administration. He later composed A Short History of the Confederate States of America, issued posthumously in 1890 He declined to take any part in politics on his return to the United States, and he was cheerfully engaged in his correspondence and in interviews with frequent visitors when a bnef illness from a bronchial complaint terminated fatally on Dec 6 1889, in New Orleans, La. He was buried there, but in 1893 his body was taken to Richmond and on May 31 was reinterred in Hollywood cemetery

his eyes very migration for nose visionative against and he tenduces were entity in the his much distribution matter and a tire bone entities in in an unitable personal courtesy.

As four of Dass one precedessed him Besides his widow Corner or whom well Admin Hores and Tanna : Winne i busing the 4-topic known as the daughter of the Coaredering born , the confederal executive of nation bie wrote ' several or as the engles some paymently. Mrs. Jenerson Davis and leath their chieff in New York. Her biography of her the grain two columns of firm m Down . A M-moir (1800) a a arrailed are pure asire presure or Davis

Bundayar in - F. H. A pend and E. A. Pollard some after the ! A C Gordon's incorrect of the same title tigits and by H I Essentides Jeffend Little Little Little Little for the same title tigits and by H I Essentides Jeffend Little Little Lights and by H I Essentides Jeffend Little Little Lights and by H I Essentides Jeffend Little Litt the late enlages of Davis matters policy. Durbar Reward in 19-3 water in the solutions of Davis Combinionalist, the Letter, Phora and Special Mrs Durbar Realand, Eron Rosand's publicate (1928) a business, Various Houses, Whise of Jefferson Davis W. H. White it published a tentauve Guscalog) in 1910. See also Allen Tate Jefferson Davis, the Rue and Fall (1914). (D.S.F.)

DAVIS or DAVYS, JOHN (1550 -1505), one of the chief Erghish navigators and explorers under Engabeth, was born at Sandridge near Dartmouth about 1550. He early made several voyages with Adrian Gilbert. In Jan 1583 he appears to have prograph his design of a north-west passage to Walsingham and John Dee and in 1505 he started on his first north-western expecition. He began by striking the ice-bound east shore of Greenland, which he tollowed south to Cape Farewell, thence he turned north and coasted the west Greenland littoral and shaped a course for china" by the notin-west. In 66° N, however he felt in with Banta Land and though he pushed some way up Cumberland sound, he tarned back (end of August). He tried again in 1586 and 1587 in the last toyage he pushed through the straits still named after tem into Baffin's bay coasting west Greenland to 73° N, almost to Upernavik. Many points in Arctic littludes (Cumberland sound. Cape Walsingham. Exeter sound, etc.) retain names given them by Davis, who ranks with Baffin and Hudson as the greatest of early Arctic explorers and, like Frob'sher narrowly missed the discovery of Hudson's bay via Hudson's straits

In 1558 he seems to have commanded the "Black Dog ' against the Spanish Armada, and in 1591 he accompanied Thomas Cavendish on his last voyage, with the object of searching that northwest discovery upon the back parts of America." After the rest of Cavendish's expedition returned unsuccessful, he continued to attempt on his own account the passage of the Strait of Magelian, and discovered the Falkland islands. After his return in 1593 he published a valuable treatise on practical navigation in The Secmen': Secrets (1594), and a more theoretical work in The World's Hvdrozraphucal Description (1595). His invention of back-staff and double quadrant (cailed a "Davis Quadrant") held the field long after Hadley's reflecting quadrant had been introduced. In 1556-9; Davis sailed with Raleigh (as master of Sir Walter's own ship) to Cadiz and the Azores, and in 1598-1600 he accompanied a Dutch expedition to the East Indies as pilot. In 1601-03 he accompanied Sir James Lancaster as first pilot on his voyage in the service of the East India Company; and in Dec 1604 he sailed again for the same destination as pilot to Sir Edward Michelborne (or Michelbourn). On this journey he was killed by Japanese pirates of Bimang near Sematra.

A Trusters Book made by John Davis in 1587, an Account of his Second Voyage in 1586 and a Report of Master John Davis of his there worsess messe for the Discovery of the North West Passage were printed in Halchyt's collection. Davis himself published The Secondar', Sepass disched into two Parts (1594). The World's Hydrographical minutes appears that there as a short and speedy Passage hale the Seath Seath Seath (1594). Volume, Philippine, and India, by Mailhally (1594). Volume

) Amer can lawver DAVIS JOHN WILLIAM 15 as ber at Cakbug (W Va) Apr 13 18 where h re cared are carry education the gradua ed at Washington and Lee university in 1800 and from the law school there in 1805 heing committed to the bar in the same year. After a year as assistant professor of law at his auna mater he returned in 1897 to Clarks to his sound or raise the last two discount. Margaret Davis burg where he entered into an informal partnership with his father, also a lawrer, which continued until 1913. In 1800 ne was elected a member of the West Virginia house of delegates. and in 1904 was a delegate to the Democratic national convention at St Louis He was elected to the 62nd (1011) and 63rd (1013) congresses for the first West Virginia district. During his period of service he was one of the managers on the part of the House in the successful impeachment of Judge Archbald.

In Aug. 1013, he was appointed solicitor-general of the United States, an office which he held until 1918 In this position he conducted many important cases among them the Midwest Oil case. involving the right of the President to withdraw from entry pubhe lands thought to contain mineral deposits. From 1913 to 1918 he was counsel for the American Red Cross. In 1918 he was anpointed American delegate to a conference with Germany at Bern on the treatment and exchange of prisoners of war, and in the same year succeeded Walter Hines Page as American ambassador to Great Britain, retaining this post until 1921. Among the honours conferred upon him was that of election as a bencher of the Middle Temple.

During the Peace Conference John W. Davis was one of President Wilson's advisers, and was the American representative on the joint committee which drafted the form of Allied control and government in the occupied Rhineland territory. In 1921 he returned from England and accepted a partnership in the New York law firm of Stetson, Jennings and Russell, which had many distarguished chents, among them J P Morgan and Co, and the Guaranty Trust Company Davis was nominated on the 103rd ballot as Democratic candidate for the presidency at the Democratic national convention held in New York city, July 1924 The ensuing election resulted in an overwhelming victory for Caivin Coolidge, the Republican candidate, the electoral vote being 382 for the latter, 136 for Davis and 13 for La Follette, the Progressive candidate, while the popular vote was 15.748,356 for Coolidge, 8,617,454 for Davis and 4,686,681 for La Follette

DAVIS, RICHARD HARDING (1864-1916), American writer, was born in Philadelphia April 18, 1864 He studied at Lehigh and Johns Hopkins universities, and in 1886 became a reporter on the Philadelphia Record After working on several newspapers, at the same time writing short stories, he was managing editor of Harper's Weekly In Dec. 1890 he arranged to travel and write for Harper's Monthly, the first book thus resulting being The West from a Car-Window (1802) He became widely known as a war correspondent, reporting every war from the Greco-Turkish War (1897) to the World War Of his numerous works of fiction, the earliest are the best, especially Gallegher and Other Stones (1801), and Van Bibber and Others (1892) His other books include Soldiers of Fortune (1897), A Year from a Reporter's Note-Book (1898), Real Soldiers of Fortune (1906), Parces (1906), The White Mice (1909), Notes of a War Correspondent (1910), and Somewhere in France (1915). He died near Mt. Kisco N.Y. April 11 2916

There have been several collective editions, the principal one being The Notels and Stories of Richard Hording Davis (1916). A collection of the best of his short stories, From Gallegher to the Deserter, was edited by Rocce I; 1017 See also Adventures and Letters of Ricka. The Transfer Davis (1927), edited by his brother Charles B Davis (1927), the Davis; a Bibliography (1924), by H. C Quinby.

DAVIS, THOMAS OSBORNE (1814-1845), Irish poet and politican, was burn at Mallow co Co k. He graduated at Trusty college, Dublin, in 1836 and was called to the bar in 1838 he joined John Blake Dillon in editing

the Date Men he D (1841) and worked at fall of er of lyrics, "The Lament of Owen Roe O Neill," 'The Battle of Fontenoy, "The Geraldines," 'Maire Bhan a Stoir," and many others Differences arose between O Connell and the young writers of *The Nation*, and Davis was one of the leaders of the extremist party, "Young Ireland," till his premature death

See his Poems and his Literary and Historical Essays collected in 18.0 (new ed 1015). There is an edition of his prose writings (1880) in the Camelot Classics. See the molograph on Thomas Davis by Sir Charles Gavan Duffy (1890, abridged ed 1806), and the same writer's Varing Ireland (revised ed 1806).

Foung Ireland (revised ed. 1896).

DAVIS, WILLIAM MORRIS (1850geographer and geologist, was born in Philadelphia, Pc., on Feb 12, 1850 After graduating from the Lawrence scientific school, Harvard university in 1870, he was assistant astronomer at the Argentine National observatory, Cordoba, Argentina, in 1570-73 In 1877 he made a tour of the world. He was instructor and professor of physical geography and geology at Harvard from 1877 until 1912 when he was made professor emeritus. In 1903 he went to Turkistan as a physiographer of Pumpelly's Carnegie institution expedition. He visited South Africa in 1905 and Austraha in 1914 as guest of the British Association for the Advancement of Science. He was visiting professor at the University of Berlin in 1908-09 and at the University of Paris in 1911-12 In 1914 he crossed the Pacific on a Shaler memorial study of coral reefs He was founder and for three terms president of the Association of American Geographers, founder and president (1902-11) of the Harvard Travellers' club, and president (1911) of the Geological Society of America By his lectures and writings on the development of the physical features of the earth he won high rank among modern physiographers

Among his published works are Elementary Meteorology (1894), The Triassic Formation of Connecticut (US Geological Survey, 1896), Physical Geography (1898), Practical Exercises in Physical Geography (1908), Geographical Essays (1909), Physiogeographic (with G Braun, 1911), Erkl Beschreibung der Landformen (lectures in Berlin, 1912), The Coral Reej Problem (1928); and numerous scientific essays In 1895 he was made a member of the editorial committee of Science and in 1909 he became associate editor of the American Journal of Science

DAVISON, WILLIAM (c 1541-1608), secretary to Queen Elizabeth, was of Scottish descent. In 1566 he acted as secretary to Henry Killegrew (d. 1603), when he was sent into Scotland by Elizabeth on a mission to Mary queen of Scots Remaining in that country for about 10 years, Davison then went twice to the Netherlands on diplomatic business, returning to England in 1586 to defend the hasty conduct of his friend, Robert Dudley, earl of Leicester, who had assumed the office of Governor of the Low Countries without Elizabeth's instructions In the same year he became member of parliament for Knaresborough, a privy councillor, and assistant to Elizabeth's secretary, Thomas Walsingham; but he soon appears to have acted rather as the colleague than the subordinate of Walsingham. He was a member of the commission appointed to try Mary, queen of Scots, although he took no part in its proceedings, was never at Fotheringay, and was not present at Westminster when the sentence of death was passed The warrant for Mary's execution was entrusted to Davison On this occasion, and also in subsequent interviews with her secretary, Elizabeth suggested that she would be glad to avoid the responsibility of the execution, but Mary's gaolers, Paulet and Drury, refused to take the hints thrown out to them Meanwhile, the privy council having been summoned by Lord Burghley, it was decided to carry out the sentence at once, and Mary was beheaded on Feb 8, 1587. When the news of the execution reached Elizabeth she was extremely indignant, and her wrath was chiefly directed against Davison, who, she asserted, had disobeyed her instructions not to part with the warrant. The secretary was arrested and thrown into prison, but, although he defended himself when interrogated in the Tower, he did not say anything about the queen's wish to get rid of Mary by assassmation Charged before the Star Chamber (March 28, n and contempt, he was acqueited by many 1583) with of evil 40 batt was of the c ent during the pays a fine of 10,000 marks, and to

queen's pleasure, but he was released in 1589. He retired to Stepney, where he died. He was buried on Dec. 4, 1608. Davison was undoubtedly made the scapegoat for the queen's pusilianimous conduct.

His edest son Frances Davison (c 1575-c 1619), and his fourth son Walter (1581-1608) both contributed poems to the Poetical Rhapsody (1600), notices of them are given in Sir N H Nicolas's edition (1826) of that miscellary Francis Davison also wrote a metrical translation of the Psaims, which remained in ms until they were edited by Sir E Brydges and by Nicolas in the 19th century

Many state papers written by him, and many of his letters, are extant in various collections of manuscripts. See Sir N. H. Nicolas, Lite of W. Davison (1823). J. A. Froude History of England (1881 fol.). Calendar of State Papers 1530-1609, and Correspondence of Lenester during his Government of the Low Countries, edited by J. Bruce (1844).

DAVIS STRAIT, the broad strait which separates Greenland from North America, and connects Baffin bay with the open Atlantic. At its narrowest point, which occurs just where the Arctic Circle crosses it, it is nearly 200 m, wide. This part is also the shallowest, a sounding of 112 fathoms being found in the centre, whereas the depth increases rapidly both to north and to south. Along the western shore (Baffin Land) a cold current passes southward, but along the east there is a warm northward stream. There are a few Danish settlements on the Greenland coast. The strait takes its name from the explorer John Davis.

DAVITT, MICHAEL (1846-1906), Irish Nationalist politician, son of a peasant farmer was born at Straide Co. Mayo, on March 25 1846 His father was evicted for non-payment of rent in 1852, and migrated to Lancashire, where at the age of ten the boy began work in a cotton mill at Haslingden. In 1857 he lost his right arm by a machinery accident; he was sent to school, and at 15 became a newsboy and printer's 'devil." He drifted into the ranks of the Fenian brotherhood in 1865, and on May 14, 1870, he was arrested at Paddington for treason-felony in arranging to send firearms into Ireland, and was sentenced to 15 years penal servitude. After seven years, spent chiefly at Dartmoor, he was released on ticket-of-leave. He at once rejoined the "Irish Republican Brotherhood," and went to the United States, where his mother, herself of American birth, had settled with the rest of the family, with the idea of grafting constitutional methods on the revolutionary movement on lines which he had thought out in prison. He proposed to link up the campaign for independence with the agrarian question. Returning to Ireland he seems to have persuaded Parnell of the importance of the agranan element, and helped him to start the Land League in 1879, and his violent speeches resulted in his re-arrest and consignment to Portland by Sir William Harcourt, then home secretary He was released in 1882 but was again prosecuted for seditious speeches, and imprisoned for three months in 1883. Before this his support of Parnell had led to his expulsion from the supreme council of the IR.B, though he remained a member of the organization until 1882 Between 1882 and 1885 he conducted a campaign on land nationalization, which Parnell repudiated He had been elected to parliament for Meath as a Nationalist in 1882, but, being a convict, was disqualified to sit. He was included as one of the respondents before the Parnell Commission (1888-1889), and spoke for five days in his own defence. That he had brought the Irish Party into contact with the Femans in America was undoubted (See Parnell) He took the anti-Parnellite side in 1890, and in 1892 was elected to parhament for North Meath, but was unseated on petition. He was then returned for North-East Cork, but had to vacate his seat through bankruptcy, caused by the costs in the North Meath petition. In 1895 he was elected for West Mayo In 1898 he helped William O'Brien to found the United Irish League to reconcile the Parnellite and anti-Parnellite factions. He retired from the House of Commons to express his disapproval of the Boer War He fiercely opposed the Wyndham Land Purchase Act and William O'Brien's conciliatory policy. He died on May 31 1906 in Dublin. A anti English, anti clerical and sourcere but embittered Na sceptical as to the value of the purely purhamentary agutation r i

R. D

. Ose, while he will be the thought his rectine per was. The thir imparity authority is to be found in his notestrate at a learning ed, profes chartens at a le transfer and unionately must be as I to Directe of the Lord Learne 12892)

ite als E ober, ta manton Rengel Greite eie (1908).

DAVOS, a mountur valley in the Stains entron of the Grisons Rom is h T . a lying east of Coate 110 m castant by rail). the members of the Lower Engagnes is my by road from Sast frive- we main theres inclined each other Dord, and "Mate the third hampet which are going it above sea-letel and had a facilitative in 1420 of 9 727 dirigure exceeded in the Grisons ny by the capital Coire. Of the population 3 385 were Protesarts, 100 Rei miss and 163 Jews: while 7,776 were Germanpenanty and the Romnesch-speaking. Taxaus or Taxaus is n collocad in 1160 and 1213 as a mountain pasture or asp. It was then in the hards of a Romansch-sperking population as is shown by many surraing field names. But between 1260 and t 82 Germin-speaking colonists from the Upper Valuis were planted there so that it has long been a Teutonic island in the nidst of a Rominson-speaking population. Historically it is assocured with the Pravigaci or Landquart valley to the north, and in 1436 became the capital of the League of the Ten Jurisdictions Oce Grisons . It formerly contained many from mines, and . peloagea from 1477 to 1649 to the Austrian Habsburgs.

In 1860 the population was only 1,705; the increase being due to he fact that the region is much frequented as a winter resort and has many sanctorize ic. At the north end of the valley is Las Daves while from Platz the Landwasserstrasse leads (20'

m; cown to the Alvaneuban station.

DAVOUT, LOUIS NICOLAS, duke of Auerstädt and prince of Eckmuhi (1770-1825), marshal of France, was born at innoux (Yonne) on May 10, 1770 His name is also, less correetly spelt Dasout and Davoust. He entered the French army as a sub-heutenant in 1785 and was chef de bataillon in a volunteer orps in the campaign of 1792, and distinguished himself at Neerwirden in the following spring. He had just been promoted general of brigade when he was removed from the active list as being or noble hirth. He served however, in the campaigns of 1794-97 on the Rhine, and accompanied Desaix in the Egyptian expedition 6. Bonaparte On his return he tought in the campaign of Marenge under Napoleon, who made him a general of division, and in got gave him a command in the consular guard. Dayout was commander of the III corps of the Grande Armée Davout rennered the greatest services. At Austerlitz, after a forced march of 48 hours, the III corps bore the brunt of the allies attack In the Jena campaign Davout with a single corps fought and won the brilliant victory of Averstadt against the main Prussian army (See Napoleonic Campaigns) He took part in the campaign of Eyan and Friedland Napoleon left him as governor general in the grand-ducky of Warsaw when the treaty of Trisit put an end to the war (1807), and in 1808 created him duke of Auerstadt In the war of 1809 Davout took a brilliant part in the actions which culminated in the victory of Eckmuhl, and had an important share in the battle of Wagram (q v.). He was created prince of Eckmuhi about this time. It was Davout who was entrusted cy Napoleon with the task of organizing the "corps of observation of the Eibe," which was in reality the army with which the emperor invaded Russia in 1812. In this Dayout commanded the I. corps, ever 70,000 strong and defeated the Russians at Mobilev hefore he joined the main army, with which he continued throughex the campaign and the retreat from Moscow In 1813 he defended Hamburg, a city ill fortified and provisioned, and full of disaffection, through a long siege, only surrendering the place on the direct order of Lorns XVIII. after the fall of Napoleon in

Devocat was a stern disciplinarian almost the only one of the

nwa en a edw h ne modiffiut pato he II H rc n he unuto clamars wan окла I p ear crine gale he ame u de ating obedience o super or orders which he enforced on his own subordinates. He was activited by his contemporaries and by later judgment to be one of the ablest perhaps the ablest, of all Napoleon's marshals On the first restoration he retired into private life, and at once it and Napoleon on his return from Elba Appointed minister of war, he was so that indispensable to the war department that Napoleon kept him at Paris during the Waterloo campaign Napoleon has been criticised for not availing himself in the field of the services of the best general he then possessed. Davout directed the defence of Paris after Water.oo, and was deprived of his mar shalate and his titles at the second restoration. When some of his subordinate generals were proscribed, he demanded to be held responsible for their acts, as executed under his orders, and he en deavoured to prevent the condemnation of Ney After a time the bostdity of the Bourbons towards Davout died away, and he was reconciled to the monarchy. In 1817 his rank and titles were restored, and in 1819 he became a member of the chamber of peers He died in Paris June 1 1823

See Ch de Mazade, Corr du mar. Davout (1885), the marquise de Blockqueville Le Merechul Davout raconté par les ueus et lu rême (Paris, 1370-80, 1887), Chenier, Davout, duc d'Auerstadt (Paris, 1866).

DAVY, SIR HUMPHRY, BART (1778-1829), English chemist, was born on Dec 17, 1778, at Penzance, Cornwall In ms school days at the grammar schools of Penzance and Truto he showed new signs of a taste for scientific pursuits. During his apprenticeship to a surgeon-apothecary at Penzance he studied metaphysics, ethics and mathematics. He turned to chemistry at the end of 1797, and, after reading Nicholson's and Lavoisier's treatises he began a series of chemical experiments with any apparatus and materials he could obtain. About this time he made the acquaintance of Davies Giddy afterwards Gilbert (1767-1839), who was president of the Royal Society (1827-31) Giddy recommended him to Dr Thomas Beddoes, who was in 1798 establishing his Medical Pneumatic Institution at Bristol for investigating the medicinal properties of various gases. Here Davy, released from his indentures was installed as superintendent towards the end of 1798 Early next year two papers by him were published by Beddoes, these contained the results of Davy's crude experiments and theories bastily formed on insufficient evidence

One of his first discoveries at the Pheumatic Institution on escated a marshal of France when Napoleon became emperor. As ! April 9, 1799, was that pure nitrous oxide is perfectly respirable and he narrates that on the next day he became "absolutely into a cated" through breathing 16 quarts of it for "near seven minutes" This discovery brought both him and the Pneumatic Institution into prominence, and Count Rumford, requiring a lecturer on chemistry for the recently established Royal Institution in London, engaged him in 1801 as assistant lecturer in chemistry and director of the laboratory. He was almost at once appointed lec turer, and his promotion to be professor followed on May 31, 1802 One of his first tasks was the delivery of a course of lectures on the chemical principles of tanning. The main facts he discovered from his experiments in this connection were described before the Royal Society in 1802-3. In 1802 the board of agri custure requested him to direct his attention to agricultural subjects; and in 1803, with the acquiescence of the Royal Institution, he gave his first course or lectures on agricultural chemistry and continued them for ten successive years, ultimately publishing their substance as Elements of Agricultural Chemistry in 1813 Although Davy had taken up the subject by order, this book remained for nearly 50 years the standard work on the subject

But his chief interest at the Royal Institution was with electro chemistry His early work on this subject is summed up in his Erst Bakerian lecture "On some Chemical Agencies of Electricity" This paper gamed him from the French Institute the medal offered by Napoleon for the best experiment made each year on "galvanmarshale who exacted rigid and precise obedience from his troops. I ism." The discovery of potassium and sodium and their prepara-Armée it was always the inm by an electrolytic effected in Oct. 1807 was of great

emportance. According to his cousin. Edmund Davy, then his | verse) and sometimes by his prose, his mind was highly imagithat he danced about the room in ecstasy.

Four days after reading his second Bakerian lecture his health proke down, and he was unable to resume work until March 1808 He continued to research on the alkalis and earths and his results were communicated in successive Bakerian lectures (1807-10) Another important discovery due to Davy was that oxymunatic acid was a simple substance, he proposed the name 'chlorine' for if He succeeded in preparing boron for which at first he proposed the name boracium, under the impression that it was a metal Davy also discovered hydrogen telluride, hydrogen phosphide and a number of other compounds. On April 9, 1812 he gave his farewell lecture as professor of chemistry at the Royal Institution, though he continued his connection as an honorary professor In that month he was knighted, and married to Mrs Apreece, daughter and herress of Charles Kerr of Kelso A few months after his marriage he published the first and only volume of his Elements of Chemical Philosophy

In Oct 1813 he started with his wife for a continental tour, and with them as "assistant in experiments and writing," went Michael Faraday, his assistant in the Royal Institution laboratory In spite of the fact that England and France were at war Davy was welcomed in Paris, where he was made a corresponding member of the first class of the Institute From Paris he went to Genoa where he investigated the electricity of the torpedo-fish. and at Florence, by the aid of the great burning-glass in the Accademia del Cimento, he effected the combustion of the diamond in oxygen and decided that, beyond containing a little hydrogen, it consisted of pure carbon

A few months after his return, through Germany, to London in 1815, he considered the construction of a miner's safety lamp. His lamps were brought into use in the mines in 1816. A large collection of the different models made by Davy in the course of his inquiries is in the possession of the Royal Institution. He took out no patent for his invention and in recognition of his disinterestedness the Newcastle coal-owners in Sept 1817 presented him with a dinner-service of silver plate. Davy's will directed that this service should pass to his brother, Dr John Davy, on whose decease, if he had no heirs who could make use of it, it was to be melted and sold, the proceeds going to the Royal Society to found a medal to be given annually for the most important discovery in chemistry anywhere made in Europe or Anglo-America" The silver produced £736, and the interest on that sum is expended on the Davy medal, which was awarded for the first time in 1877, to Bunsen and Kirchhoft for their discovery of spectrum analysis

In 1818 he received a baronetcy for this signal service to industry In that year also he was commissioned by the British government to examine the papyri of Herculaneum in the Neapolitan museum He had been secretary of the Royal Society from 1807 to 1812, and on his return from Italy in 1820 became president, but his personal qualities did not make for success in that office especially in comparison with the tact and firmness of his predecessor, Sir Joseph Banks He directed his attention to various subjects, chiefly electromagnetism, but his researches were less successful than his earlier experiments. In 1823 the admiralty consulted the Royal Society as to a means of preserving the copper sheathing of ships from corrosion and keeping it smooth and he suggested that the copper would be preserved if it were rendered negatively electrical, as would be done by fixing "protectors" of zinc to the sheeting. This method was tried on several ships, but it was found that the bottoms became extremely foul from accumulations of seaweed and shellfish. For this reason the admiralty decided against the plan. In 1826 Davy's health, which showed signs of failure in 1823, made rest necessary The following years were spent chiefly abroad, and he died at Geneva on May 29, 1829 On this journey he wrote his Consolations in Travel (1830)

Of a sangume somewhat irritable temperament, Davy displayed characteristic enthusiasm and energy in all his pursuits As is shown by his verses (all his life he found soluce in writing

laboratory assistant he was so delighted with this achievement native, the poet Coleridge declared that if he 'had not been the first chemist he would have been the first poet of his age," and Southey said that "he had all the elements of a poet, he on'y wanted the art In spite of his ungainly exterior and pecu ar manner, his happy gifts of exposition and illustration won him extraordinary popularity as a lecturer, his experiments were ingenious and rapidly performed and Coleridge went to hear him "to increase his stock of metaphors". Though his ambition some times betrayed him into petty jealousy it did not leave him insensible to the claims on his knowledge of the cause of humanity ' to use a phrase often employed by him in connection with his invention of the miners' lamp

> See J A Paris The Life of Sir Humphry Davy (1831), John Davy, Memoirs of Sir Humphry Davy (1876); Collected Works (with shorter memoir, 1830). Fragmentary Remains, Literary and Scientific (1858), T. E Thorpe, Humphry Davy, Poet and Philosopher (1896).

> DAVY LAMP. If a piece of metal gauze is interposed between a dame and an explosive gaseous mixture, the heat of the flame is absorbed and conducted away by the metal gauze so that the gaseous mixture does not explode. That is the principle of the Davy lamp, which was invented by Sir Humphry Davv in 1816. The Davy lamp consisted of a small cylindrical oil lamp, covered with a cylinder of wire gauze about 6m long and rin in diameter, with a flat gauze top The upper part of the gauze was doubled to prevent it from being worn into holes by the products of combustion The gauze was mounted in a frame of upright wires screwed into a brass ring at each end. The upper ring carried the handle and the lower one was screwed to a collar on the oil vessel at the bottom of the lamp. Thus encircled with a case of metal gauze, the flame or gases could not pass out at a temperature high enough to fire an explosive mixture in the mine For the subsequent developments of this invention, see SAFETY LAMP

> DAWARI or DAURI, a Pathan tribe on the Waziri border of the North-West Frontier Province of India The Dawaris anhabit the Tochi Valley (q v), otherwise known as Dawar or Daur, and are a homogeneous tribe of considerable size

> DAWES, CHARLES GATES (1865-), American statesman and financier, was born in Marietta, O on Aug 27 1865, the son of Gen Rufus R Dawes He was educated in his home town, graduating at Marietta college in 1884 at the early age of 19 He then attended the Cincinnati law school and m order to detray his expenses obtained employment during his vacation on the Marietta, Columbus and Northern Ohio railway Before finishing his two-years law course he was made chief engineer in charge of construction on this railway—a fact eloquent of the energy and versatility which were to distinguish his whole career He graduated in 1886, before he was old enough to practise Admitted to the bar several months later, he commenced practice at Lincoln, Neb., in 1887

> Dawes' reputation as a lawyer was established by his part in the Nebraska rate case in which he appeared successfully as counsel for the Lincoln board of trade in an effort to obtain a reduction in railway rates in Nebraska In 1894 he became extensively interested in the gas business at Evanston Ill, and at other western points, and removed to Evanston in that year. In 1896 he organized the movement in Illinois to nominate William McKinley as Republican candidate for the presidency. He was active in securing McKinley's nomination and election and was chosen a member of the executive committee of the Republican national committee He was appointed comptroller of the currency by President McKinley on Jan. 1, 1898 His tenure of office was conspicuous for efficiency of administration and disregard of "red-tape" methods, especially in the conduct of the many receiverships and trusts created by the financial disorders following 1893. Retiring from this office in 1902, he organized the Cen tral Trust Co of Illinois, which, under his presidency, became one of the strongest financial institutions in Chicago

On the declaration of war against Germany by the United States (April 6, 1917) Dawes volunteered for service and was on as major and later as heut-co of the

Lga .0 10 purch-surr mand at that it supply procurement charged with the difficulty has the applies in Europe and of co-ordinating their purchase in such that is to mund against unlisted prices and out the most in Electory success in directing these transaction, which estuand for the American army to 600 000 ship was or sugher to Europe as against rece coo shipped to a treat the limited reader led to his promotion to the rank of transfer peak a co o On the united was a command of the add ra - the F. A. Grad Diaes we appointed as U.S. member of the Ministry Restler. Vi. d Supply the organization of also had been largely due to his efforts. This board for the last hear promise of the World reduced the iconomeration suppiles for the Assaul Armius in the same of the advance

After the conduction of the Armietice. Dun es become a member : or the aguication committee of the A.E.F. charged with the task of disposing of the huge occumulations of American property in t France at a or settling outstanding claims against the crity. This, although some of the "canons" have been proved untenable engaged his edotts until Aug. 1910, when he resigned his commission and returned to the United States. Upon the creation of a pudget harms by Congress April 1901 the directorship of it was phered to General Dawes by President Harding and was accepted on conducts that the bureau should be non-poutical, that in gathering irrormation the director should be assumed to be acting for the Frequent and his calls for consultation or information should take precedence of all others. His work in organizing this bureou and creating under executive order the existing system of ; co-ordinating business now operating in Government business was carried through with characteristic vigour and directness and resuffed in savings estimated officially at Sogo,000 coo in the first year Having completed the task of placing the budget on a satisfactory and permanent basis, he resigned his position on June 30.

In the meantime the collapse of the German financial structure and international reactions resulting therefrom had precipitated a cross in European affairs, the outcome of which appeared omncus. At this juncture, the Allied Reparations Commission, in 1923, appointed General Dawes and Owen D. Young as U.S. members of the committee of experts to report upon means of balancing Germany a mudget and stabilizing its currency. Dawes was selected as chairman, and the committee's report, known as the 'Dawes Plan," was subsequently ratified and accepted by all the Powers conterned. By making the actual transfer of reparation payments commissed on the stability of the German exchange, this plan provided a non-polatical and automatic means for determining Gentuary's ability to psy and so witadrew this vexed question from international controversy and paved the way for the later agreements entered unto at Locarno (See Reparations.)

At the Republican National Convention held at Cleveland, O June 10-12, 1914, following the nomination of President Coolidge for re-election General Dawes was nominated for vice-president on the third ballor by a vote of 6821 against 3341 for Herbert Hower and 75 for Judge Kenyon. Following the overwashning triumph of the Republican technical technical cheeral Dawes assumed office on March 4, 1915. In his mangural speech he called for a revision of the rules of procedure in the Senate so that a majority vote could apply the closure to debate. He later carried his proposals for senatorial reform before the people in a series of public meetings in various parts of the country.

Amother aspect of General Dawes's character is revealed by two acts of philanthropy. In memory of his son, Rufus Fearing, who was accidentally drowned (Sept. 5, 1910) he established the Rufus F. Dawes botels in Chicago and Boston, at which improvemshed may could obtain look and accommodation at nominal rates. As a measurable to his mother he established the Mary Gates Dawes memorial hetel, where women might have chesply and retain the physical comparis and social opportunities comparible with selfrespect. In the course of his varied and successful career as cosheet, kneyer, politicien, com--" of the

base, phlanth opat, soldier, organizer of the Government budget, leading spirit in the settlement of German Eparations and vice-president of the United States, General Darses tound time and to become an accomplished musician on the plane and flate. In March and April 1929, he headed a financal commission to the Dominican Republic. In April he was appointed ambassador to Great Britam

Proves viole The Bourn; System of the United States and its Remove of the More and Burness of the Country (1894). Essays 100 Spience (1915), A Journal of the Great War (1921), and The Pirst Year of the Budget of the United States of America (1923). (0 D

DAWES, RICHARD (1703-1766), English classical scholar was dorn in or near Market Bosworth. He was elected fellow of Emmanuel college Cambridge, in 1731 From 1738 to 1740 he was master of the Newcastle grammar school. The book on which his fame resrs is his Miscellanea critica (1745) which gained the commendation of such distinguished Continental scholars as L C. Valckenaer and J. J. Reiske. The Miscellanea, which was reedited by T. Burgess (1781), G C Harles (1800) and T Kidd (1811), will remain an enduring monument of English scholarship.

See J Hodgson, An Account of the Life and Writings of Richard Dawes (1828), H. R. Luard in Diet of Nat Biog; J. E. Sandys, Hist of Classical Scholarship, is 415

DAWES PLAN: see REPARATIONS AND DAWES PLAN.

DAWISON, BOGUMIL (1818-1872) German actor, was born at Warsaw, of Jewish parents, and at the age of 19 went on the stage. In 1839 he received an appointment to the theatre at Lemberg in Galicia In 1847 he played at Hamburg with marked success, was from 1849 to 1854 a member of the Burg theatre in Vienna, and then of the Dresden court theatre. He died in Dresden on Feb 1 1572 Dawison was considered in Germany an actor of a new type; a leading critic wrote that he and Marie Seebach 'swept like fresh gales over dusty tradition" His chief parts were Mephistopheles, Franz Moor, Mark Anthony, Hamler, Charles V., Richard III, and King Lear

DAWKINS, SIR WILLIAM BOYD (1837-1929), English geologist and archaeologist, was born at Buttington vicarage near Welshpool Educated at Rossall school and Oxford, he joined the Geological Survey in 1862, and in 1870 became curator of the Manchester museum, a post which he retained till 1890. He was appointed professor of geology and palaeontology in Owens college, Manchester, in 1872. He paid special attention to the question of the existence of coal in Kent, and in 1882 was selected by the Chancel tunnel committee to make a survey of the French and English coasts. He was also employed in the scheme of a tunnel beneath the Humber His chief distinctions, however were won by his researches into the lives of the prehistoric cave-dwellers described in Cave-hunting (1874), Early Man in Britain (1860), British Pleistocene Mammalia (1866-87). He was knighted in 1919, and died on Jan 15, 1929

DAWLISH, urban district and seaside resort Tiverton parliamentary division. Devon, England, on the English channel at the mouth of Dawlish brook, 12 m S. from Exeter by GW railway. Pop (1921) 4,675 It lies on a cove sheltered by two headlands, and both sides of the Dawlish brook are lined by pleasure grounds The warm chmate and excellent bathing attract many visitors in spring and early summer. It holds an annual fair on Easter Monday and a regatta in August or September. Until its sale, in the 19th tentury, the site of Dawlish belonged to Exeter cathedral from 1050.

DAWN, the time when light appears (dows) in the sky The dawn colours appear in the reverse order from those of the sunset. When the sun is lowest in both cases the colour is deep red, this gradually changes through orange to gold and yellow as the sun nears the horizon This is their order of refrangibility, in the spectrum; the blue rays usually are scattered in the sky. The colours of the dawn are purer and colder than the sunset colours as the reduced dust content of the atmosphere causes less sifting of the light rays.

DAWSON OF PENN, BERTRAND EDWARD DAW public SGN, 187 Bance Burish physician, studied medicine at Univer-

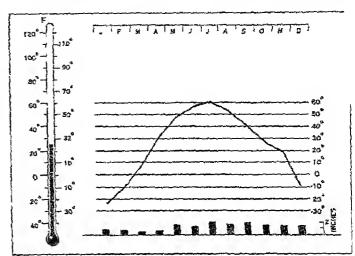
st college and the London hospital where in 896 he becam centre. I is in beautial mountainous country 1,049 ft. above an assis and physicar and nigotophysican B his extense. The sea, and 1500 m from the mouth of the Yukon river, and researche or gastric affections he became one of the authorities is reached by river steamer from White Horse (460 m) in sumon this subject. He was appointed physician extraordinary to mer and by sleigh in winter. There are metal works and saw Edward VII. in 1907, and later physician in ordinary to George mills. Order is kept by the Northwest Mounted Police. Founded V and in 1923 to the prince of Wales. During the World War in 1896 its population soon reached over 20,000 at the height of he worked on war diseases, publishing various papers on para- the gold rush, in 1901 it was 9,112 and in 1921, 975. The tem typhoid and infective jaundice. He was made GCVO in 1917. KCMG in 1919 and in 1920 was raised to the peerage. Dawson has published The Diagnosis and Operative Treatment of Diseases of the Stomach (1908), and has contributed to this Encyclopædia. He was made a Privy Councillor in June 1929

DAWSON, GEORGE GEOFFREY (1874-). editor of The Times, 1912-1919, and again from 1923 to the present date (1928) He was educated at Eton and Magdalen college, Oxford, and was elected a fellow of All Souls college in 1900 Passing into the civil service he was appointed to the Colonial Office and in 1901 he went to South Africa as private secretary to Lord Milner, then high commissioner On Lord Milner's retirement from the high commissionership in 1905 he accepted the editorship of the Johannesburg Star, which he held for the next four years. Returning to London in 1910, he was appointed a director of The Times, which was then in the early days of Lord Northchite's direction, and in 1912 succeeded G. E. Buckle as editor. The conspicuous success which The Times attained during the difficult years of the World War was largely due to Dawson's sound judgment and knowledge of affairs, which formed an admirable and often very necessary complement to Lord Northchife's imagination and genius. In 1919, however, Dawson found himself unable to carry out Lord Northcliffe's policy for The Times and resigned He was succeeded by Henry Wickham Steed (q.v.). When in consequence of Lord Northcliffe's death in 1923 The Times was reconstructed, Steed retired and Dawson was recalled to the editorship. During his absence from journalism he was estates bursar of All Souls college (1919-23) and secretary to the Rhodes Trust (1921-22)

DAWSON, SIR JOHN WILLIAM (1820-1899), Canadian geologist, was born at Pictou, Nova Scotia, on Oct 30, 1820. He was educated at Edinburgh, Scotland, and on his return to Nova Scotia in 1842 he accompanied Sir Charles Lyell on his first visit to that territory He was superintendent of education (1950-53), at the same time he studied the geology of the country, making a special investigation of the fossil forests of the coalmeasures From these strate, in company with Lyell (during his second visit) in 1852, he obtained the first remains of an "airbreathing reptile" named Dendrerpeton. He also described the fossil plants of the Silurian, Devonian and Carboniferous rocks of Canada for the Geological Survey of that country (1871-73) From 1855 to 1893 he was professor of geology and principal of M'Gill university, Montreal He was elected F,RS in 1862, and knighted in 1884. Dawson published, besides other works, Acadian Geology: The geological structure, organic remains and numeral resources of Nova Scotia, New Brunswick and Prince Edward Island (1855, ed 3, 1878); Air-breathers of the Coal Period (1863). He died on Nov 20, 1899

His son, George Mercer Dawson (1849-1901), was born at Pictou on Aug. 1, 1849, and received his education at M'Gill University and the Royal School of Mines London. In 1873 he was appointed geologist and naturalist to the North American boundary commission, and two years later he joined the staff of the geological survey of Canada, of which he became assistant director in 1883 and director in 1895. He was in charge of the Canadian government's Yukon expedition in 1887, and his name is commemorated in Dawson City, of gold-bearing fame. He was one of the Bering Sea Commissioners in 1891. He was elected FRS. in 1891, and was president of the Royal Society of Canada m 1893. He died on March 2, 1901. He was the author of many scientific papers and reports on the surface geology and glacial phenomena of the northern and western parts of Canada.

DAWSON CITY or Dawson, capital of the Yukon textitory, Canada, on the bank of the Yukon river, and in the middle of the Klondike gold region, of which it is the distributing



WEATHER GRAPH OF DAWSON CITY THE THERMOMETER SHOWS THE NORMAL ANNUAL MEAN TEMPERATURE THE CURVE SHOWS THE NORMAL MONTRLY RAINFALL

perature varied in 1926 from 83° F in summer to 41° below zero in winter.

DAX, a town of south-western France, capital of an arrondusement in the department of Landes, 92 m. SSW. of Bordeaux, on the Southern railway between that city and Bayonne Pop. (1926), 9,786. It lies on the left bank of the Adour, and its suburb Le Sabler, on the right Its ancient Gallo-Roman fortifications are now a promenade Dax (Aquee Terbellicae, Aquie Augustae. later D'Acqs) was the capital of the Tarbelli in Roman times, when its waters were already famous. In the 11th century its viscounty passed to the viscounts of Béarn and in 1177 was annexed by Richard Coeur de Lion to Gascony. The bishopric founded in the 3rd century, was in 1801 attached to that of Aire The church of Notre-Dame, once a cathedral, was rebuilt from 1656 to 1719, but still preserves a sacristy, a porch and a fine sculptured doorway of the 13th century The church of St. Paullès-Dax, mainly 15th century, has a Romanesque apse with currous bas-rehefs Dax, well known as a winter resort, has thermal waters and mud-baths (the deposit of the Adour). The principal of numerous bathing establishments are the Grands Thermes, the Bains Salés, adjoining a casino, and the Baignots, which fringe the Adour and are surrounded by gardens. Dax has a subprefecture and tribunals of first instance and of commerce Commerce is chiefly in the pine wood, resin and cork of the Landes, and in mules, cattle and horses

DAY, JOHN (1574-1640?). English dramatist, was born at Cawston, Norfolk, in 1574, and educated at Ely. He became a sizar of Caius College, Cambridge, in 1502, but was expelled m the next year for stealing a book. As early as 1598 he became one of Henslowe's playwrights, collaborating with Henry Chetile, William Haughton, Thomas Dekker, Richard Hathway, and Wentworth Smith, but his almost incessant activity seems to have left him poor enough to judge by the small loans, of five shillings and even two shillings, that he obtained from Henslowe. The first play in which Day appears as part-author is The Conquest of Brute, with the finding of the Bath (1598), which, with most of his journeyman's work, is lost. The Ile of Guls (printed 1606), a prose comedy founded upon Sir Philip Sidney's Arcadia. contains in its light dialogue much satire to which the key is now lost. In 1607 Day produced, with William Rowley and George Wilkins, The Travailes of the Three English Brothers which detailed the adventures of Sir Thomas Sir Anthony and Robert Sharley The work on which Day's reputation chiefly This exquisite misque, or milet some of pasteril relevance is entirely occupied with the doings of withs the varieties of all bees. The bees had a partiment under Froten the Master Bee and various companies are partitive analysis of number-ope the wasp the circle and other of tidate. This sufficiel allegary of addresseds with a royal of green it Copena was distributed Justice to all. There is no extract elipset of Fee First parts of Beet transtant in that but a persistent that in the assigned me piece to there. In 1908, Duayant-sea two confides Law Triphila on, Who World have To also but in elegance and of Break the Taham, the only poet, I was the lished in the of The six drames by John Day which we possess show a delicate fand, and damny inventiveness all his own. The beauty and ingeniuty of The Paradment of Bues were used and warning extolled by Charles Lumb, and Day's work has since found many admirers.

His works, entied by A. H. Bullen, were printed at the Chiswics Press in 1981. The same editor included The Mandet Metam rephons in vol. 1 of his Celection of Old Flore. The Portion ent of Bees and Human out of Break were printed in Nero and other Plans (Mernard Series, 1838) with an introduction by Arthur Simons. An approximation by Mr. A. C. Sumburne appeared in The Nineteenth Century (Oct. 1867).

DAY, THOMAS (1748-1789), British author was born in London and is famous as the writer of Sundford and Merton (1733-82), a took for the young Day was educated at the Charternouse and at Corpus Christi college. Oxford, and became a great admirer of J. J. Rousseau and his doctrine of the ideal state of nature. Having independent means he devoted himself to a life of study and philanthropy. He brought up two foundlings, out of whom he hoped eventually to marry on the severest principles but neither acquired the high quality of stoicism which he nad notked for, and ultimately he married an herress who agreed with his ascetic programme of life. He settled in 1781 at Ottersnaw in Surrey and took to farming on philanthropic principles. His poem. The Dying Negro" (1773) struck the keynote of the anti-slavery movement.

DAY, in astronomy, the interval of time in which a revolution of the earth on its axis is performed. Days are distinguished as solar, sidereal or linear according as the revolution is taken relatively to the sun, the stars or the moon. The solar day is the fundamental unit of time in daily life and in astronomical practice. In the latter case, being determined by observations of the sun it is taken to begin with the passage of the mean sun over the meridian of the place or at mean noon, while the civil day begins at midnight

The question of a possible variability in the length of the day is one of fundamental importance. One necessary effect of the tital retardation of the earth's rotation is gradually to increase this length. It is remarkable that the discussion of ancient eclipses of the moon, and their comparison with modern observations, show only a small and rather doubtful change, amounting perhaps to less than one-hundredth of a second per century. As this amount seems to be less than that which would be expected from the cause in question, it is probable that some other cause tends to accelerate the earth's rotation and so to shorten the day. (See Moon and Times)

Legal Aspects.—In law, a day may be either a dies naturals or natural day, or a dies artificialis or civil day. A natural day includes all the 24 hours from midnight to midnight Fractions of the day are disregarded to avoid dispute, though sometimes the law with consider fractions, as where it is necessary to show the farst of two acts or events. In cases where action must be taken for preserving or asserting a right, a day means the whole natural day of 24 hours

When a statute directs any act to be done within so many days, these words mean clear days, i.e., a number of perfect intervening days, not counting the terminal days: if the statute says nothing about Sunday, the days mentioned mean consecutive days and include Sundays. Under some statutes Sundays and holidays are excluded in reclaiming days and all the act, of a coldays would be

Lay Days, which are cays given to the charterer in a charter party, either to local or unload without paying for the use of the said are days of the week not periods of 24 hours. As to lay cays running days working days and weather working days, see Affreighthem. For days of grace see Bill of Exchange.

Civil Days.—An artificial or civil day is difficult to define, it is a convenient term to signify the various kinds of "day" known in legal proceedings other than the natural day. In England the United States and most of the countries of Europe the Roman civil day still prevails, the day commencing at 12 PM

In England the period of the civil day may and does vary under deferent statutes. Daytime, within which distress for rent must be made, is from sunrise to sunset. An obligation to pay morey on a certain day is discharged if the money is paid before midmight of the day on which it falls due, but the law requires reasonable hours to be observed. If, for instance, payment has to be made at a bank or place of business, it must be within business hours.

When an act of parliament is expressed to come into operation on a certain day, it is to be construed as coming into operation on the expiration of the previous day (Interpretation Act 1889, § 36, Statutes [Definition of Time] Act 1880)

Under the orders of the supreme court the word 'day" has two meanings. For purposes of personal service of writs it means any time of the day or night on week-days, but excludes the time from 12 midnight on Saturday till 12 midnight on Sunday For purposes of service not required to be personal, it means before six o clock on any week-day except Saturday, and before 2 PM on Saturday

Closed Days, i.e. Sunday. Christmas day and Good Friday, are excluded from all fixtures of time less than six days otherwise they are included, unless the last day of the time fixed falls on one of those days (RSC, Olivi).

See English Law.

DAY-BED, a small type of French couch bed, mtended to serve as a bed at night and as a sofa during the day. The standard day-bed is narrow, with foot and head pieces identical in size and appearance. Because of the convenience of its size the day-bed has come into wide use in small apartments where every effort must be made to conserve space. It is especially popular in the large cities of the United States. The low and symmetrical head and foot pieces give it the appearance of a divan, thus serving to conceal to some degree the fact that the living-room in which it appears is converted at night into a bedroom.

DAY BOOK: SEE BOOKKEEPING

DAYE, STEPHEN (c. 1594-1668) first printer in the Anglo-American colonies, was born in London. Although it has been stated that he served an apprenticeship as a printer there, the records extant indicate that he was a locksmith. In the summer of 1638, however, he came to America with the Rev José Glover, a dissenting minister of some means, with whom he made a contract to set up the first printing press in the English colonies This he did in the autumn of 1638 at Cambridge Mass The first issue from his press was the Freeman's Oath, Jan 1639; the second, an Almanack by William Pierce mariner, 1639, the third, the Psalms, now known as the Bay Psalm Book, 1640 According to the records of the general court of Cambridge, Dec. 10, 1641, he was granted 300 ac of land for "being the first that sett upon printing" His name is not found in connection with the imprint of any of his publications but that of his son, Matthew, who seems to have been next in charge of the press, appears on the title-page of the Almanack, 1647 The extant issues from his press are The Whole Booke of Psalms, faithfully translated into English Metre (1640). A list of Theses at the Harvard Commencement in 1643 (1643), A Declaration of Former Passages and Proceedings between the English and the Narrowgansetts, with their confederates, Wherein the grounds and justice of the ensuing warre are opened and cleared (1645). He died at Cambridge, Mass, on Dec 22, 1668

DAY FLOWER, the name gi on to plants of the botanical germs C of the sp derwort family (Commelinaceae)

tropical regions, 8 of which are found in the southern United States They are usually ascending or reclining, somewhat fleshy, branching herbs, with short-starked leaves, and irregular, usually blue flowers, in small clusters more or less enfolded in two spathelike bracts. The Virginia day-flower (C. virginica), found in moist places from southern New York to Libnois southward to Florida and Texas and thence to Paraguay, has diffusely branching stems, 14 ft to 3 ft high, lance-shaped leaves, and showy blue flowers an mch broad The creeping day-flower (C nudifiora), with reclining stems I ft to 21 ft long, rooting at the joints, and small blue flowers, about ½ in broad, found from New Jersey to Missouri and southward, is extensively distributed also in South America, Asia and Africa The Asiatic day-flower (C communis), with small, very deep blue flowers, has become widely naturalized in the east-

ern and southern States Various species are in cultivation **DAYLESFORD**, a town of Talbot county, Victoria, Australia Pop c 5,000 It lies on the flank of the Great Dividing range, at an elevation of 2030 ft. Much wheat is grown in the district, gold-mining, both quartz and alluvial, is carried on, and there is a mining school Near the town are the Hepburn mineral

springs

DAYLIGHT, ARTIFICIAL. The wide use of artificial light in civilization has created a demand for lamps which show coloured objects truthfully, 2e, which do not change colours from their hues as seen by daylight. The problem is thus one of producing an artificial light whose spectrum (see Light) closely resembles that of sunlight Artificial light always contains too high a proportion of red, orange and yellow rays

A gas-filled electric lamp is employed, as its filament temperature is high and its form the most economical. The spectrum obtained from a black body, heated to 5,000° C.. is found to be approximately that of average diffused daylight. According to the temperature at which the filament of an incandescent electric lamp burns the amount of red and orange contained in the spectrum of its light varies, becoming greater as the temperature is lowered, a metal filament bulb burns at 2 200° and has more red and orange in it than the gas-filled bulb, which burns at approximately 3,000° Therefore, the gas-filled bulb is used in artificial daylight devices, but its light has to be subjected to special treatment to correct its undue yellowness and redness

Various means are employed for this purpose, such as filtering the light through a coloured transparent medium, ze, glass, talc or varnish, or by the use of a coloured reflector, or by a series of coloured mirrors fixed in a reflector. Coloured reflectors with certain pigmentations have proved successful, and by this means it is possible to match practically any type of daylight, but this method absorbs a very large quantity of the initial illumination By the use of tinted or coloured glasses, one or more different colours being placed one behind the other, the same effect can be obtained, the loss of light by this method, however, is not so high as in the former

Artificial daylight was at first mainly used for the purpose of matching colours. It has come into use for general illumination, however, as the value of artificial daylight in resting the eyes has become appreciated. Hospital staffs, dentists, physicians and surgeons find artificial daylight of great value. The method is also employed in dye and colour works. See Lighting

DAYLIGHT SAVING. In the second year of the World War nearly every country in Europe adopted the device of putting the clock forward an hour during the spring, summer and autumn months The motive was to get people to bed an hour earlier and out of bed an hour earlier, to save fuel for lighting and heating.

Great Britain.—In Great Britain, the idea itself did not arise out of the war. About 1907 it occurred to William Willett, a Chelsea builder, that civilization got up an hour or two too late in the summer months, and had a short evening for outdoor recreation, when it might have a long one. He devoted himself to a campaign for putting the clock on by 80 min. in the spring and summer months He ran the campaign at his own expense, and succeeded so far that in 1908 Mr (afterwards Sir Robert) Pearce introduced a bill in the House of Cammans to put the clock on

There are about 115 species, chiefly natives of tropical and sub- | by law. The bill was sent to a select committee the following year In 1916, the expert committee set up by the British Government to study the question of fuel economy advised that the measure should be adopted. The scheme was simplified. Willett had proposed that the clock should be put on 80 minutes in four moves of 20 minutes each. The first select committee in 1908 had advocated one movement of the clock of one hour in the spring. This was the method adopted by the act which was passed on May 17, 1916, and put into operation the following Sunday, May 21. There was a good deal of opposition Farmers objected to it because milkers would have to get up an hour earlier to do their work, which meant getting up in the dark during the greater part of the year Hay and corn harvests could not be carried until the dew was dried off, which meant an hour during which labourers could do nothing. When put to the test of practice these difficulties proved to have been much exaggerated

Summer time was introduced on Sunday, May 21, 1916 The president of the Royal Meteorological Society sent out a letter stating that Greenwich mean time would continue to be used for all meteorological observations and publications, but asked that regular observers for this society should state in their reports whether they were recording Greenwich or summer time. The Port of London Authority announced that the tide tables in the almanacs would remain Greenwich time. The Royal and LCC parks decided to close at dusk by the sun, but Kew Gardens decided to follow the clock and closed an hour earlier by the sun At Edinburgh the Castle gun continued to be fired at IPM summer time but the ball on the top of the Nelson monument on Calton hill was dropped at 1 o'clock, Greenwich mean time, for the benefit of mariners who watched it from the Firth of Forth The legal change of the clock was fixed for 2 A.M.

In Great Britain summer time was renewed after the World War by a series of acts of Parliament The final and permanent Act of 1925 provided that summer time should begin on the day next following the third Saturday in April, or if that day is Easter day the day next following the second Saturday in April Summer time closes on the first Saturday in October The official time for altering the clock is 2 AM, Sunday

United States.—No public interest was developed in the project in the United States till after the outbreak of the World War, and it was not until 1916 that a nation-wide campaign was initiated in its support. Opinion was divided, but in 1917 Congress passed an act, to take effect in 1918, whereby the standard time of the United States would be advanced one hour on the last Sunday in March and set back one hour on the last Sunday in October. The act was effective from March 31 till Oct 27, 1918, and again on March 30, 1919 Strenuous opposition developed, however, from the farmers and the law was repealed on Aug 20 1919, over the President's veto Since then daylight legislation has been sporadic and intermittent. Daylight saving is observed (1928) in the States of Massachusetts and Rhode Island by virtue of State laws, and by municipal ordinance in the New York Metropolitan district, Philadelphia, Chicago and a number of other cities and towns, but the movement as a whole has lost ground Chicago is the most westerly city using the summer system. In Seattle the banks alone have adopted it But west of the Mississippi and in the South daylight saving is practically unknown. While the system is widely used only in the North-east, it has, even there, found opposition, as in Connecticut, where it is a State offence to show any but Eastern standard time publicly. However, a number of the principal towns in this State observe daylight saving. An analogous State law is in force in Maine, yet in the city of Portland daylight saving is observed by general consent.

Other Countries.—The daylight saving bills adopted during the World War in Germany, Austria, Italy and Scandinavia have not been revived. A permanent "summer time" bill was adopted in France, in 1923, and in 1928 summer time was being observed, April 14-15 to Oct. 6-7. Summer time bills were approved in Canada in 1924, in Holland and Belgium in 1925, in Spain and Portugal in 1926 and in New Zealand in 1927. Mexico observes "emmer time" all the year round

DAY NURSERIES -4-30 7.3. m 7 14 000 2 . 1. . 38 J. Co.) alisenes forth at milgrat part of the

martile anti-

where cover-some about there to go out to work by caring for their years, on trea or by school age during the faw. During the rich century france and belgium had many 'cre nes" but they were on the til number scripe to, morpored, would arreport to en egy at two or inted records and for very small fees the norking anothers real a leave their children to be but and cared for during the day. This green proved unstraigntory, want of rechaical knowledge and in-winders sand my to coursons sed to the spread i clustration and the tereibe soon act a had name. But with the increase in the knowledge and study of 'mothercraft' and infant welfare, which councided roughly with the early years of the coth States, and organized in modern and hydrenic metabos, very different into those of the cid 'créches'. The value of fresh air and 'moving air was increasinally appreciated and open-air nuiseries were built in London, Manchester and elsewhere

In Great Britain the movement is largely associated with the names of Mrs Arbur Percival and Muriel, Viscountess Helmsley was founded the National Society of Day-Nurseries with the objects of starting nurseries raising the standard of existing 'crèches, 'putting them in close touch with the Government departments, and "standardizing" the training of statis

The movement, like many other branches of the infant welfare movement, originated in private enterprise and the day-nursery was generally started by a voluntary commutee. From the year 1915 a grant in aid was given by the Board of Education. When, in 1918, the Local Government Board was merged in the Ministry of Health, day-nursenes were placed under their maternity and child velfare department.

The ministry inspect the nurseries at regular intervals and give a grant preportionate to the expenses incurred, in certain cases grants are also made towards capital expenditure, such as the purchase of premises, etc. The cost of upkeep is met by the parents' payments (us a day is a common charge), the Government grant, private subscriptions and, in some cases, a municipal grant Loral authorities have the power to provide day-nursenes

Children are received from the age of one month, until they attain school-age. The mother brings the child in the early morning on her way to work and calls for it on her return in the evening. The child is inspected on arrival by the "creche-trained" matron, and, if found to be free from any signs of infection, is bathed, dressed in the cursexy clothes, and cared for during the day in accordance with the requirements of its age. The infants have cors, and the necessary food and sleep; the older children or "toddlers" have three good means and plenty of opportunity for fresh air, rest and exercise The mental development of the toddlers is assisted by "nursery school classes," under the supervision of a specially trained member of the staff. The furnishing of the musery is of great importance, small tables and chairs are provided for meals, etc., and stretchers for rest. The staff generally consists of a matron and sister, with "nursery" training and some hospital experience, a toddlers' nurse, young probationers and a cook.

The health of the children is under the daily care of the matron. who wright the children weekly or fortnightly; accurate records ere keen and are seen by the visiting doctor at the fortnightly medical inspection. The previous medical history of the child, if ! it has attended the infant welfare centre, is used for reference and the nineary record is available for the school doctor when the child knows the quesery. In this way a complete record can in some cases, he obtained of the child's medical history. A great peint is made of the clothing and feeding of the children in the nurthey the is held that the pursences are in this way of great edicational value to the mothers.

Problemains in day paymentes per trained on a syllabor property Jurish Marianal Surjety of 800 with the

Na o at teague to Tealth We ray and Child Westare They assend certain lectures and then sit for a series of examinations The successful candidates who can show evidence of satisfactory public hearth work or owner for any the United States, and other practical work then obtain a certificate of proficiency in the care or condren These gires are then fitted to become 'nursery Their grantil int it up a 3 3 essect widows and other women nurses' in private posts or public institutions, and the scheme of traming is approved by the Ministry of Health.

Since 1016 the neadquarters of the National Society of Dav-Nurseries have been under the same roof as many other organizations for miant and child welfare at Carnegue house, 117, Picca dilly London The Society publishes a monthly magazine, Creche

The Day-Nursery in the United States.—The day-nursery movement in America has followed rather different lines, but there, even more than in England, its value is recognized as an essentul part of calld welfare.

Government inspectors from state, county and city departments century, day-nurseness were prought to England and to the United , of health have the right to inspect and criticize the nurseries, but no Government grant is given and they are entirely supported by voluntary charity, supplemented by the parents' fees

> The first day-nurseries in America were started in 1858 (New York) and in 1863 (Philadelphia), but the actual movement dates from the conferences held in 1892, 1897 and 1898. At this last conference the National Federation of Day-Nurseries was inaugurated, this society has not only encouraged the formation of many nurseries but has done valueble research work in connection with the 'pre-school child" It has organized biennial conferences dealing with day-nursery questions and has published reports of these conferences, leaflets, dietames, etc., and the Day-Nursery Bulletin, a monthly dealing with day-nursery problems. The headquarters are at 105. East 22nd street, New York city.

> As regards other countries the tendency of the present day is to establish day-nurseries in connection with infant welfare work and nursery schools. In France the "Crêches d'Arrondissements" of 10th century Paris have been largely superseded by nurseries connected with large factories and shops, or department stores. These are frequently used for infants, and give special facilities to nursing mothers for the breast-feeding of their own babies

> Belgium, Holland, Switzerland, Germany, India and Japan encourage the provision of day-nurseries, and Poland, Serbia and Spain have recently followed their example.

> See the publications of National Society of Day-Nurseries, 117, Piccadilly, London, and of the National Federation of Day-Nurseries, New York Maternity and Child Welfare Act (1918) (N. L. H.)

DAYS OF GRACE. The extra time allowed to meet the payment of a bill of exchange after its due date. In English law, three days grace are thus allowed No extra time is allowed, however, for a bill payable at sight. In the case of insurance premiums, also days of grace are allowed before the policy actually expires In the United States days of grace in all bills of exchange have been abolished by the Negotiable Instruments Law, except in a very few States, as to sight drafts. (See Bill of Exchange, INSURANCE.)

DAYTON, a city of Campbell county, Kentucky, USA, on the Ohio river, opposite Cincinnati, served by the Chesapeake and Ohio railway The population was 7.646 in 1920 (95% native white) and was estimated locally at 9,540 in 1928. There is a watch-case factory, but the city is primarily a residential suburb

of Cincinnati. It was settled and incorporated in 1849

DAYTON, a city of south-western Ohio, U.S.A., on the Great Miami river, 55m. NNE of Cincinnati, a port of entry, the county seat of Montgomery county, and a leading centre of aviation research. It is served by the Baltimore and Ohio, the Big Four the Erie, the Pennsylvania, and 5 inter-urban electric railways, and by 14 motor bus and 11 motor truck lines operating over the hard-surfaced roads which radiate in every direction. There are three commercial and two Government airports and numerous emergency landing fields. The population was 152 559 in 1920, of whom 9.025 were negroes (an of 86% m ten years) and ignit wise foreign born white (nearly a third from Gettoury) and was by the census bureau at 180,700 m The city covers 17 sq m of level ground 7.10ft above sea-level in 2 wide river trough, where three rapid streams (Wolf creek, Stillwater river and Mad river) flow into the Miami. It is completely protected (since 1921) from all danger from floods. Boulevards and streets are wide and in the residential districts are lined with trees. The dwellings (49% of which were owned by the occupants in 1927) are for the most part small private houses each with its own garden. Many of the factories are surrounded by attractive grounds. The public parks and playgrounds comprise 621ac (including a 23ac. Island in the Miami) and just south of the city there is a municipal country club (2942c of natural forest) with golf courses and tennis courts. The elimination of grade crossings within the city, and the construction of a boulevard on the bed of the abandoned Miami and Eric canal, were begun in 1927. A comprehensive city plan (adopted in 1925) is in process of development

Dayton has had a commission-manager form of government since 1914. The water supply comes from driven wells 50-100ft deep. Natural gas is used and it is estimated that the supply will last until 1945 or 1950. Electric current, steam-generated, is provided by a super-power system, and the local power and light company furnishes steam heat to a considerable area in the central part of the city. The city has one of the few financially successful municipal gurbage-reduction plants. Both the death rate and the cost of living are relatively low.

The manufactures are many and varied, with an aggregate output in 1927 valued at \$235,165,907 Dayton has long been known as the home of the National Cash Register company. In recent years it has become the leading producer, also, of electric-lighting and water plants for home use, electric retrigeration equipment, fare registers, computing scales, water softeners, fan belts, shoemakers' lasts, aeroplane parts, golf clubs and ice cream cones, and it makes all the Government stamped envelopes 'Precision industries" predominate, in which labour is more important than material, and skilled labour more important than unskilled. The percentage of women in industry is relatively low, and there is little child labour Except in the building trades the "open shop" prevails. The making of aeroplanes at Dayton began with the experiments of Orville and Wilbur Wright (q v) who in 1903 flew successfully the first heavier-than-air machine. During the World War the US Government located its aviation experiment laboratories at McCook field, on the northern boundary of the city. When this became too small, the people of Dayton raised \$400,000 in four days to buy a tract of 5 oooac, north-west of the city (including the Wrights' original flying field), which they presented to the war department, to be a permanent bome for the experimental and research division of the Army Air Corps

The annual volume of Dayton's wholesale business is estimated at \$45,000,000: its retail trade at \$353,000,000. In 1927 bank debits amounted to \$1,132,335,779; post-office receipts were \$2,-353,439; and the assessed valuation of property was \$345,672,290.

The city has 79 public schools including a normal college, and 17 parochial schools; 152 churches; and 4 daily newspapers, one of which is in German It is the seat of the university of Dayton, a Roman Catholic institution (formerly St. Mary's college, founded in 1850), Bonebrake Theological seminary (United Brethren); and the Central Theological seminary of the German Reformed Church; also of an art institute (established 1919). The Engineers' Club and the Foremen's Club are distinctive organizations. The National Association of Foremen was founded in Dayton and its official organ is published there. The first house built in Dayton, a log cabin on the bank of the Miami, is preserved as a historic museum. There is a State bospital for the insane; and a branch of the National Home for Disabled Volunteer Soldiers.

History.—The site of Dayton was bought in 1795 from John Cleves Symmes by a party of Revolutionary soldiers. It was laid out as a fown in 1796 by Israel Ludlow, one of the owners, and named after Jonathan Dayton (1760–1824), who had fought in the Revolution and was at the time a representative of New Jersey in Congress. In 1803 it was made the county seat and in 1805 the town was incorporated. Growth was rapid after the opening of

the Miami and Eric canal in 1823, and in 1841 it was chartered as a city. By 1860 the population had reached 20,081, increasing to 38.678 in 1880 85.333 in 1900 and 116.577 in 1910. In March 1913, the Miami valley was swept for five days by a steady down fall of run, resulting in a great flood. Over 400 lives were lost in the valley, and damage to property was estimated at \$100 000 000 When the waters receded, Dayton was left covered with mud and denris. A pestilence was averted only by prompt and energetic measures. Martial law was declared food was distributed, and tents were put up for the homeless. A relief fund of \$750,000 was dishursed by the American Red Cross and the Citizens Relief committee Steps were taken to prevent the recurrence of such a disaster. On June 28, 1915, the Miami Conservancy District, a political sub-division of the State, was established under a new law, for the purpose of building and maintaining floodcontrol works in the Miami valley. The plan finally adopted combined channel improvement with the construction of five great retarding basins Five dams (from 1.200 to 6.400ft long, from 75 to 125ft high, and from 380 to 785ft thick at the base) were built across the upper valleys or the Miami and four of its tributaries. Construction work began in 1913 and was completed in 1922. The cost was \$32,000,000 Protection has been provided against a flood 40% greater than that of 1913 and 20% greater than the maximum estimated to be possible. Following the flood Dayton adopted a commission-manager form of government, which came into effect on Jan 1, 1914. It was the first large city to install a manager and there has been no disposition to return to the mayoralty system

For an account of the flood of 1913 and the construction of the flood-control works see Technical Reports (10 vols.) by various authors, published by the Miami Conservancy district, Dayton, O

DAYTON, a city of south-eastern Tennessee. USA. 38m N.E of Chattanooga, at the foot of the Cumberland escarpment, the county seat of Rhea county. It is served by the Southern railway. The population in 1920 was 1701 In July 1925 the little country town was the scene of the famous "activolution" trial in which John T. Scopes, a teacher of science in the high school, was found guilty of having violated a State law prohibiting the teaching, in the schools supported by the State, of any theories to the effect "that man is descended from the lower animals" Counsel for the defence included Clarence Darrow and Dudley Field Malone. The prosecution had the support of William Jennings Bryan, who died in Dayton a few days after the close of the trial Mr Scopes was fined \$100, but the penalty was set ande by the State Supreme court on a technicality, without any expression of opinion as to the constitutionality of the law A Fundamentalist university on a hill at the back of the town is projected by Bryan's admirers as a memorial.

DAYTONA BEACH, a city of Volusia county, Fla., U.S.A, on the Halifax river, 5cm below St. Augustine; on the Dixie and Atlantic Coast highways and the Ocean Shore boulevard, and served by the Florida East Coast railway. It was formed in 1926 by the consolidation of the city of Daytona (pop., 1925, 9,592) and the towns of Daytona Beach (pop., 1925, 2,129) and Seabreeze (1,792), and its population in 1928 was estimated locally at 25,000. Daytona Beach is a popular winter resort with many botels and private winter homes. The Spanish style of architecture prevails, and the assessed valuation of property in 1927 was \$51,605,000. Along the hard, white beach, which adjoins that of Ormond, is a fine automobile racing course, where many speed records have been made.

DEACON, a minister or officer of the Christian Church. The status and functions of the office have varied in different ages and Churches, and the name is the Gr διάκονος, minister, servant.

(a) The Ancient Church.—The office of deacon is almost as old as Christianity itself. Tradition connects its origin with the appointment of 'the Seven' recorded in Acts vi. t-6. This connection, however, is questioned on the ground that "the Seven' are not called deacons in the New Testament and do not seem to have been identified with them till the time of Irenaeus (c. 180). The officers of the Church are described in Philipp. i. i. as "bishops and deacons"; and in i. Tim. iii. 8-13 the office of

20 2 Ν. 12 E m c I _ce. 9 -e = С a, ... th. us .. were near to y established, the deacen heary the worst and suppresents to the history and the preseyters. It the the edge the artics of descens were astronal value and the defined with the mostil of the episcopate, however, they became the mortectage musty, ers of the bishop. Their duties included the management of Crurch property and firences distribution of alras and care of the sick and of nations and orphans. They were also required to seek out and reprove orienders (Apostolical constitutions ath cont 1 Wash the growth of hospitals and other maritable institutions bowever the soon, work of the Church ase transferred to other- and the diaconate came by degrees to be regarded (as to the Roman Cathout and Anglican Churches to-day) merely as a step towards are priesthood and the deacon's dulies were practically restricted to ritual acts. such as reading the Gospel censing the priest etc., at High Mass

(6) The Church of England.—The discourse is recognized as one of the three orders, and is conferred by episcount ordination. Candidates must be 2, years and and must satisfy the bishop as to their intellectual moral and spiritual fitness. Deacons may perform any sacred office except that of consecrating the

elements and pronouncing absolution

(c) Churches of the Congregational Order.-In these (which include Baptists) the deacons are laymen appointed by the members of the Church to superintend the financial affairs of the Church to-operate with the minister in the various branches of his work assist in the visitation of the sick aftend to the Church property and generally supervise its activities.

See Thomass als leids at new disceplina, pars 1 hb : c 51 f. and hb ii c 29 f (Lugdurum, 1706), J N. Seial, Der Dickonst in der kuldsütchen Kreine (Regensburg 1884), R Sohm, Kirchenrecht, 1 121-257 (Leipzig, 18,2), F J A Hort, The Christian Ecclesia

1 121-137 'Let (London, 1897)

DEACONESS, a woman set apart for special service in the Christian Church. The origin and early history of the office are obscure. The arguments for its existence in apostolic times, based on Rom. xvi I (where Phoebe is called diakovos) and I Tim in 11, and on Piny's mention of two ancillae quae ministrae dicebantur, are hardly conclusive. But it is certain that before the middle of the 4th century there existed in the Eastern Church an order of deaconesses of higher rank than the somewhat similar orders of 'virgins' and 'widows' The order is recognized in the canons of the councils of Nicaea (325) and Chalcedon (451), and many of Corysostom's letters are addressed to deaconesses at Constantmople The ordination of deaconesses resembled that of deacons, but conveyed no sacerdotal powers or authority (for specimens of the ordination service see Cecilia Robinson, The Memistry of Deaconesses, 2nd ed., 1914, pp 219-229) Their mission was to perform certain offices in connection with the care of women. The functions of the deaconess, according to the aposrelical Constitutions, were as follows (1) To assist at the baptism of women (2) to visit and minister to the needs of sick and afflicted women: (3) to act as door-keepers in the church and conduct the women to their seats. In the Western church an attempt seems to have been made in the 4th century to introduce the order into Gaul. The movement, however, was strongly opposed, and was condemned by the councils of Orange (441) and Epaone (527). Despite the probib-non the institution made some headway, and traces of it are found later in Italy, but it never became popular in the West. In the middle ages the order tell into abeyance in both East and West

In modern times several attempts have been made to revive the order. In 1833 Pastor Fliedner founded "an order of deaconesses for the Rhenish provinces of Westphalia" at Kauserswerth The original aim of the institution was to train nurses for hospital work, but afterwards it trained its members for teaching and parish work as well. Kaiserswerth became the parent of many similar institutions. The revival of the order in the Church of England dates from 1862, when Miss Elizabeth Ferard was set apart by the Bishop of Landon. Other dioceses gradually adopted the innovation. It has been senctioned by Convocation, and the Lambeth Conference in 1897, "recognized with thankfulness the revival of

bu n ited that the name must be restricted to women set apart by the bishop and working under the control of the carochial energy

In addition to Miss Rebinson's book cited above, see Church in addition to Miss Rebinson's book cited above, see Church Querer! Review kivil 302 ft. art "On the Early History and Modern Revival of Deacontsses" (London, 1899), and the works there referred to, D. Latas Novorianish 'Anxaiologia i 153-171 (Atoens 1863). Testamentum Domini, ed Rahmani (Mainz, 1800), L. Zecharnack Der Denst der Frau in den ersten Jahrhunderten der der kingen von der Kananische Leisen von der Verlagen von der Ver chr. Arrest (1502).

DEAD, DISPOSAL OF THE. Monuments and buildings set up by man for the use of the living were seidom preserved by him beyond their period of usefulness and seidom remain in tact; but his arrangements for the dead were usually made with permanency in view and are frequently discovered undisturbed From these records of the past knowledge is yielded of man's paysical characteristics circumstances, material achievements customs and beliefs. Inscriptions are tarely present to give a date to graves, but the method of disposal, the type of grave, the objects deposited with the dead, their relative positions the postime and orientation of the body, and, in the older periods, the geological stratification and contemporary fauna, provide knowledge of the period and race to which the remains may be assigned.

PALAEOLITHIC PERIOD

The earliest human remains as yet discovered-at Trimi (pitheconthropus) Heidelberg and Piltdown-were river-borne fragments whether originally buried is unknown, but the earlier part of the last ice age supplies in several instances evidence of the disposal of its dead by the Neanderthal race in Europe Thus the bodies of the La Ferrassie man and child were protected by stones; a pillon of flint-chippings was gathered together for the Le Moustier you'h and graves were dug for the La Chapelle man and La Ferrassie infant Belief that the dead lived on and had the same needs as the living is shown in the stone implements placed with the Le Moustier, Spy I, and La Chapelle burials, and in the ochre and food supplied for La Chapelle, and in each case the home of the dead is, as in life, the rock-shelter or cave

Finds from the Upper Palaeolithic period are more numerous, and here again almost all burials are in caves or by rock-shelters, including probably the remarkable oval grave fenced round with mammoth shoulder-blades at Předmost (Moravia) this enclosed 20 burials in squatting position, and was dug in loess close to a limestone outcrop which once probably formed a rock-shelter The chief exception is the richly furnished single burial in level ground at Brünn. The same kind of provision continues to be made for the dead during this epoch, but its developed culture provides finer implements and a wealth of personal ornament. necklaces, armlets anklets aprons, caps, of threaded shells and animals' teeth; carved bone amulets, ivory figurines. Instead of the small lumps of red ochre at La Chapelle, many of these later graves are liberally bestrewn with the substance. The cave-hearth is now frequently chosen as burial-site (Solutré, Grimaldi) and here occasional charred bones are more probably due to incompletely extinguished fires than to deliberate cremation

Though no invariable position characterizes palaeolithic burials. an attitude of sleep-knees bent, arm under head-is the most frequent in Europe; while in Africa contracted posture obtained in the palaeolithic cave-burials discovered in 1927 near Lake Nakuru (Kenya) and with the skeleton of the same type and period from Oldoway (1913) further north. In Lower Palaeolithic burials at La Ferrassie and an Upper Palaeohthic at Grimaldi, however, were skeletons whose sharply bent knees and arms were pressed close against the chest. So lie the dead of many primitive peoples. bound tightly lest they walk, or use their hands for mischief on the living

Already in Upper Palaeolithic Spain and France there are some inducations of a cult of the skull in calvaria prepared as "howls," and in occasional burial of the head alone. But with its closing phase (Anlian) comes the remarkable cave-burial at Ofnet (Bavaria) where the severed heads of the dead were deposited one by one into two scooped-out "nests." six into one 27 into the other They wore rich of shells and stags teeth were cere-

montally with red other and all faced west. Charcoal DEAD 97

and charred remans near by sugges ed that the bodies were remaied From the same per od da e the human nones in Mas dAz l (France) scraped clean of flesh and pan ed red be ore interment

POST-PALAEOLITHIC

As mankind passes through stages marked by his discoveries of the crafts of stone-polishing, copper-, bronze- and iron-working, we find an immense variety of funerary custom conditioned partly by natural and cultural resources, largely by belief as to the kind of life after death, and the relationship between dead and living

Cremation and Inhumation.—In Europe total cremation is found associated with the Late Neolithic banded-pottery and painted-pottery cultures, from Belgium to southern Russia Inhumation was general over Europe in the earlier part of the bronze age, but gradually in the later part it was largely replaced by cremation, and from then on the two methods competed and alternated in different countries until the spread of Christianity banished cremation from European civilization down to its modern revival. This practice has a long and varied history in other continents also. A mid-4th-millennium cemetery rich in gold and copper objects was discovered at Ur (Mesopotamia) in 1927 and contained partial cremations which argued total cremations at an earlier epoch, by the end of that millennium inhumation prevailed alone at Ur. Cremation has been the usual Hindu method, frequent also among Buddhists; rare in China It was general among the Aztecs of Mexico, reserved only for people of rank in the Maya civilization of Yucatan, and for occasional criminals among the Jews In Egypt it is unknown

Other Methods.—These include (1) the preservation of the body by smoke-drying, embalming, etc (see Mummy); (2) exposure to birds of prey (as by the ancient Scythians, the Zoroastrians, the poorer Siamese), river-committal, or other methods little likely to help in identifying the remains; (3) disposal in two stages—first, of the corpse by burial, exposure, etc, until the soft tissues disappear, second, of the bones either individually as in eastern South America (in jars), or collectively, as in neolithic British barrows, in the great neolithic hypogeum at Hat Saflieni (Malta), or in vaults of mediaeval English churches

such as Hythe

Posture and Orientation.—In many cultures and religions a definite position is given to the dead. The posture usually ranges from tightly contracted to fully extended, the former tending to be associated with more primitive, the latter with higher civilizations, the body usually lies on side or back, or is seated, and it is frequently orientated in a given direction. Thus in Egypt the tightly contracted pre-dynastic posture gradually loosens as the dynasties pass until full extension is reached in the Middle Kingdom From the Old Kingdom onwards the body usually lies with head north, face to the sunrise In England bodies lay contracted till shortly before our era, but orientation varied until Christianity taught that the feet of the dead should be towards the east, whither they must hasten at the last trump. The custom mainly holds in England still, but Norway and Holland have long abandoned it, except in country districts. Buddhist traditionwhere Buddhists bury-dictates head north, face upward, as Buddha died. The Mohammedan must he on his right side, facing Mecca, but the Japanese in his tub-shaped coffin sits upright, like some among our ancestors in chambered barrows

Type of Tomb The use of caves as epulchres continued in he Neol hic period usually as sepul nres alone, and in the Late Neoli hic were excavated the first art ficial burial calles. In Mediterianean lands the single cave entered direct from cliff-race then added an entrance-passage, as the trench in level ground gained a side-chamber, then both gradually developed extra chambers and niches. These elaborations culminated in catacombs such as those of Panticapoeum (Crimea) and—most elaborate of all—of Rome. Megalithic tomb-architecture sprang up in Neolithic, flowered and died in Bronze (see Megaliths). In Neolithic times the first barrows also were piled up as burial-places and memorials. But as mankind elaborates—plays out—these various ideas conceived in his imaginative adolescence, he reverts ever and again to the simple grave as standard; while throughout we find the simple grave persists for simple folk.

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In the early times of Neanderthal man the bodies of the dead were buried with some ceremony, and, with the apparent exception of one or two very primitive tribes, there is no known people to-day which does not dispose of its dead in some well-defined traditional manner. The treatment of the corpse however, is not as a rate complete in itself, it is but an incident in a series of rites When a community loses one of its members especially anyone of importance, it suffers a shock, and the rites connected with the dead are to be regarded as the stereotyped behaviour of society by which it readjusts itself during such a period of strain and emotional disintegration. For this reason their correct performance is important to society. The more serious the loss, that is, the greater the value of the deceased to the community, the more elaborate will these rites be and the greater the number of people which they concern The very aged, on the other hand, and those who have long been ill and who, therefore, have for some time taken little part in the life of the community, often receive scant attention at death and may even be buried alive, since, socially, they are in a sense already dead

There are many variations in the ceremonies connected with death, and in the treatment of the corpse, but each has its recognized procedure from which deviations are rare, and in all there seem to be three distinct phases. The first lasts from the time of death, or when all hope of the sick person's recovery is abandoned, until the beginning of the rites directly connected with the disposal of the body, the second is during the performance of these rites, the third is covered by the period from the disposal of the body till the cessation of mourning.

When the individual is dead, or regarded as dead, the corpse is usually washed and decorated and a ceremony of leave-taking may be gone through, often accompanied by the presentation of gifts. The duration of this period varies considerably according to the importance of the deceased or to the affection felt for him. For a commoner a day or two may suffice but for a chief it may occupy many weeks and the body is sometimes partially embalmed to prevent decomposition from setting in during this time. If it is suspected that death was due to foul play, especially sorcery omens are now carefully observed or the body is asked to indicate in some recognized manner the guilty person or village. Friends and relatives having now said farewell, the body is laid to rest

The number of ways in which a body can be disposed, are six. inhumation or burial, cremation preservation, exposure, waterburial and hastening decomposition by artificial means. Occasionally the bodies are exposed for destruction by wild animals. Many or all of these methods are sometimes found in use among a single people. Where this is so, the mode of disposal of the body is usually determined by his social status, by membership of some social group, his achievements in life or the cause of his death. In general, such methods as preservation and the artificial hastening of decomposition are reserved mainly for those who have been important in life. Those who are unimportant to society are usually given a form of disposal which entails little trouble or expense. The cause of a person's death often affects profoundly the fate both of the body and soul. A

72°27 TRI . TO T-1 171 5 £-7 ET Carry affiffing ם ידי rost army's andital to surrous the wemen who have the in thildren. The reasons for such distinctions are not always awar but in general these union unities are considered to be undesirnote. Those who are entitied and usually teared and measures are taken is prevery that soals from troubard are thing such as part ng thoma it to the feet of the corpse so that the spirit may not wash to some or tracks over the grave that it may not escure at the or humans the lody and so destroying the soul

Inhumation.—It here inhumetion is practised there is often a while the rest of the body is disposed elsewhere. cornerery usually studied at a little distance from the vallage. where abof that community are buried, or there may be separate ores for the arrente kindrens which compose it, occasionally one is reserved for men and another for nomen. These are often car tuny tended and are sor, carnes used for the meetings of the v. age coaped. Frequently however, cometenes are absent and the site of a man's grave is either fixed by tradition as for instance in his gorden or before the threshold of his bouse, or selected by himself or his herrs. The most usual form of grave is a trench, sometimes shallow, occusionally of considerable depta, but some are more elaborate. A common form is a pit at the sottom of which a horizontal recess is excavated and in this the corpse is laid, the pit tiering usually but not always filled in afterwards In some areas the crave is an underground chamber approached hy a subtestanean passage. To prevent the soil touching the corpse ; the sides of the grave are sometimes lined with wood, stone leaves or mats, or the body itself is carefully wrapped up. Wooden cofhas are used by some tribes, or, among sea-faring peoples, the deceased is buried in his cance. The superstructure of the grave may be only a low hummock of earth but, over the remains of important people, large mounds are often erected. A small but is often set up over or beside the grave to protect the soul (which usually hagers near the body until decomposition is complete) from the inclemencies of the weather Grave-stones are also esected as memorials and as temporary abodes for the spirits when they desire to visit the living

Cremation.—The destruction of the corpse by fire has a worldwide distribution. Often it is restricted to a certain class of people, notably chiefs, but sometimes where other methods are normal it is used for lunatics workers of black magic and other dangerous members of society. When such people are burnt the remains are generally thrown away. In other cases they are buried, cost ceremonially into water or placed in assumies belonging to a kindred or village group. Sometimes some member of the deceased's family beeps them, or certain of them, and treasures them as a link with the soul of the departed. The construction of the pyre and the kind of timber used are generally decreed by custom, since any deviation brings misfortune on the soul of the

deceased

Preservation.—The practice of preserving the bodies of the dead is not restricted to ancient Egypt. It is found to-day among imbes scattered throughout the world and even among such primtime ones as those of Torres straits. Generally it is reserved for chiefs or priests. The methods used vary considerably Preservatives, such as alcohol, honey, salt, butter or the sharings of certain woods are common; sometimes the body is dued by smoking, usually preceded by evisceration or massage to extract the juices, and sometimes it is placed in a scaled wooden effigy or coffin. In one tribe in East Africa a fire is lit on the top of the grave with the intention of baking the body

Exposure—hiere common than preservation is the custom of exposing the dead on trees, rocks or on platforms erected in the gardens or the bush. Where the atmosphere is bot and dry this may result in desiccation which possibly is intended. Elsewhere the corpse is left to decompose and the bones are collected ! and kept to telics or placed in an osmary. During the period of electrification with its forces probably its project to their

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Artificial Decomposition.-Artificial means to hasten de composition are often reserved for important men. It is some times effected by warming the body over a slow fire or by washing it regularly and scraping away the patrifying flesh. If only a portion of the body is to be cleaned, such as the head, which is treasured by many who have an ancestor cult. this may be wrenched off and placed in a termites nest to be eaten clean,

Water Burial -To fling a corpse mic the water is an easy mode of disposal and is, therefore often the fate of slaves, foreigners or people of no account. But there are tribes among whom it is not considered an undistinguished end, and some individuals may even request to be buried at sea, because they "like wash all time long salt water " Certain parts of the coast are in some islands set uside as water cometeries where, after being wrapped up to protect them from the fish and weighted to prevent them from being washed on shore, the bodies are sunk. In the Solomon islands, however where sharks are regarded with veneration, the deed are laid on the reef for these creatures to complete the burial. A method (not strictly "water-burial") is that of placing the deceased in a cance and pushing it out to sea. This was formerly practised in many parts of Polynesia, and is recorded from the Cameroons, where the coastal inhabitants set the figure of a bird on the prew of a funeral canoe to guide it on its way because those for whom it is done are descendants of an immigrant people who at death, must return across the sea to the land of their origin. This may also explain the other forms of sea-burial and likewise the use of a canoe as a coffin; certainly the latter is sometimes definitely connected with an after world which must be reached by boat

Orientation.—Wherever inhumation, cremation or exposure are the custom, the position in which the body is placed and the orientation in the grave or on pyre or platform, are important Even so insignificant a point as whether the body is laid on its right or left side may affect the fate of the soul in the land of the dead. The corpse may be extended on its back or front, or be seated upright or recline with flexed knees. Sometimes if buried on land or in the sea it may be fixed as though standing, the erect position in the water being obtained by weighting the feet. A very common position for burnal is lying on one side with knees drawn up and the hands raised to the face as in sleep, though it has also been suggested that this is in imitation of an infant before

birth

Often there is no definite orientation. Even in one cemetery the bodies may be facing in many different directions. But it is frequently the custom for the head to point or the face to look towards that point of the compass where lies the other world or the

land whence the people have migrated.

Secondary Disposal.—The disposal of the remains after cremation and exposure is a necessary part of the funeral rites. But even where inhumation is practised the bones are sometimes exhumed and laid in a special spot, often as a regular part of the retual which may take place at a definite time after the burial or on a great annual ceremony when the bones of all who have died within the year are finally laid to rest. Among people who have a cult of the dead the skull is often kept by the living to be an abode for the soul if it wishes to visit this world. Other bones are also sometimes kept, not as shrines, but for use in magical ceremonies or for the making of weapons. This secondary disposal often marks the close of the period of mourning and may be for the deceased the last act in the passage rite (see Passage Rites), as a ceremony whereby the soul is finally despatched to the other world of which community it is henceforth a full member Sometimes, however, exhumation and secondary disposal are only performed under exceptional circumstances. If a soul troubles the decomposition the living often visit the body and sometimes rub | living, the body may be dog up and either removed elsewhere or destroyed by fire or water. Often the soul itself indicates that if

such a removal, and it may

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DEAD RECKONING DEAD SEA

either to a relative in dreams, o. by causing sickness and mis-

Grave-goods.—To the savage the dead closely resemble the hung in both psychological and physical make-up. It often seems tha, at death the soul is conceived as being weak just as its body was To give it increased vitality the mourners cut themselves and allow the blood to drip on to the corpse, for blood is the chair of life. The laying of food on the grave and the lighting of are plainly the result of this material conception of the soul, but the reasons given for the practice vary. Sometimes the journev to the other world is long and the food is for the support of the traveller on his way. In other places it is intended for the comfort of the disembodied creature during the time that it hangs about its home, before departing to join its ancestors. The grave-goods destroyed or buried with the body are definitely for use in the land of the dead, which in physical and social formation is very like that of the living. In it a man will need those things which were valuable in life—weapons, tools, wealth. They are therefore buried or burnt with him, if buried they are often broken in order that their non-material essence may be released Pots have been found specially made as grave-goods with holes in the bottom or with uncompleted designs, through which this spiritual part can escape. The killing of a man's favourite wife or slaves is a further logical result of this conception of life after death, for he will continue to need them to minister to his wants To avoid the actual destruction of the property cheap imitations may be buried or burnt as in China to-day, or the objects may be laid on the corpse while it lies in state and removed before disposal in this way the dead man retains the use of them in the other world and his heirs have the use of them in this

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DEAD RECKONING, the computation of a ship's position derived from the latitude and longitude last determined, from the direction of the compass and rate and time of sailing according to the log, reference also being made to astronomical observation for correction and comparison of this method *See* Navigation, and Aerial Navigation

DEAD RENT. The fixed rent payable under the leases of mmes or quarries and paid in addition to the stipulated royalties. This payment secures to the owner of the mineral a certain income, and ensures that the mme or quarry is worked in his interest, since if the property lies idle the dead rent must be paid (See RENT)

DEAD SEA, the lake in southern Palestine in which the river Jordan terminates It is bounded on the north by the Jordan valley—at that point broad, and and forbidding, on the east by the escarpment of the Moabite plateau, on the south by the desert of the Arabah, and on the west by the mountains of Judaea. It has a length of 47 m and a breadth of 10 m, a superficial area of 360 sq m. and a mean depth of 1,080 feet. Its surface level, which has a seasonal variation of 10 to 15 ft., lies about 1,300 ft. below that of the Mediterranean, and is the lowest sheet of water on the earth's crust The Jordan alone pours into the Dead sea on a daily average a volume of water estimated at 6 million tons, and in the winter season torrents-very few of which are pereputal-from the hills to the east and west add their contribution. The rainfail in the Dead sea valley seldom exceeds 5 in in the year There is, of course, no effluent The heavy inflow is carried off by evaporation (estimated at 131 mm per day), visible in strange looking blue-white clouds which float halfformed and ethereal above the waters. An interesting feature is the peninsula, called from its shape the Lisan (tongue) which projects from the east shore. The sea to the south of this pendo pulsus shallow showing a depth of from 3 to 30 ft. whilst ports 饭菜化 the eastern shore, as the point, of greatest depth

(1,310 feet)

Geology.—The Dead sea occupies the lowest p Jordan rift-valley or trough-fault, caused by the sli of the strip of earth's crust confined by the two paral visible in the rock walls on either side of the val Jurassic and Cretaceous periods an extended Mediter ered Syma and Palestine, but during the Tertiary pend sive upheaval of the sea-bed produced land. The earth was uneven creating wrinkles (the Lebanons and western Palestine) and causing the fractures which the Jordan-Dead sea depression. There seems reason that prior to the Pluvial period, which later followed of this region was similar to that now prevailing a Dead sea was approximately the same size as at ores the Pluvial period the surface of the Dead sea gradua it reached a height of 1 400 ft. above present leve quently higher than the Mediterranean. At this sta vast inland sea stretching 200 m from Huleh in the point 40 m beyond its present southern limit. Its capable of supporting life and remains of its fauna found in its marginal deposits.

A dry period supervened during which evaporation over precipitation causing a gradual shrinkage until interval only a remnant of the great sea remained le wake deposits of marl, gypsum and salt, and cle beaches to bear silent witness to the uneven course of The formation of the Lisan and of Jebel Usdum a south-west shore, must have occurred subsequent to of contraction, since both are composed entirely of trine deposits The strata of the Lisan dip to the east there has been an upheaval of the floor of the Ghor missible to conjecture that the crustal movements d to continued faulting, which forced up the Lisan and J forming a southern escarpment of varying elevation a base line, depressed at the same time the sea-bed to the Lisan where its deepest part is known to be. V confined to the north of this barrier, what is now end of the Dead sea would be dry land. At no very the sea broke this barrier at its western side, aided by another tremor, or by merely overflowing, as it at a point where the barrier was low. That the level sea is now rising, and has seemingly been rising for well established. Since Kitchener's survey in 1883-84 nearly 20 feet. Since 1900 it has not risen more tha however The chief contributing factors to this rise the encroachment on the sea of the Jordan delta, raising of the sea-bed through fresh layers of pre

Salinity.—The water of the Dead sea is inter Whilst ocean water has a salinity of 4-6%. Dead set tains 23-25% of salts Exhaustive analyses of water different parts and at different depths have been mad lowing selection from the analyses made by Terreil A is surface water at the north end. B 120 metres dof Kās el-Feshkha, C 300 metres deep, at the same Trace

climate that seems to be growing more moist

	A	В
Chlorine .	65 81	67-66
Bromine .	2.37	1-98
Sulphate -	0.31	0 22
Carbonate .	T	${f T}$
Sodium .	x1.65	10 20
Potassium.	1 85	1-60
Calcium	4 73	1.21
Magnesium	13 20	ró-80
Silica	T	T
	100-00	100 00
Total solids in grams for		1
roo grams of hould	10.2	24.5

pen sodium and ar logules. The of largely belo

s & d no d c man a., rob c T J. 8 8 c 5 mak and contrement talks and applications have receasily states been in used by the Covernment of Priestine for the monopoly right for developing the mineral resources of the Duri sea. The density of the whier is roughly a 160, increasing from north to sourn and with the depth. At the southern end the density to 1953. In consequence the watter in the Dead sea finds that when the nator reaches his aimpres he is swept of his feet on in sairming the shoulders are all the time out of the water When the water is permitted to dry an names or alothing the resulting withings is commenly asserted the No animal life can l raist in is alters. Fish brought down by the Forcan de and turned lead for the sea-bros. From the selt pools on the north shure and from the Jebel Usdam the Budouin have been in the babilt of retrieving salt to smuggie. Sait was a Government. monopoly under the Thiss and continues to be so under the new l'alestine regime.

Recent investigation has shown that the river Jordan carries an unusually high percentage of saits especially sodium chloride and magnesium fulbride. In the Dead sea the sodium chloride crystallizes out but the magnesium chloride remains in solution. With magnesium as a parmoient and increasing element in Dead sea water, its rate of entry and the cubical content of the ! sea edicatable, the age of the Dead sea becomes a matter of simple anthmetic. From the data available to him Irwin puts the figure at 50 000 years—obviously much too tow

Bitumen, or more exactly, asphalt floats ashore on occasion It is fullected and used as a protection against worms and grubs in . vineyards. According to Arab writers, it had many medicinal! virtues. Search is now being made for petroleum in the Dead sea! area

History.-No other sea has had such a variety of names The term "dead sea" was first introduced by late Greek writers, and is used by Pausanias, Galea, Justin and Eusebius. To the Hebrews it was "the sea," "the salt sea," "the sea of the Arabah," the eastern sea." To Josephus it was "the asphalt sea," "the Sodomilish sea." whilst to Arab writers it was "the sea of Za'rah Zoar)" "the stanking sea." "the sea of overwhelming" "the dead sea" and "the sea of Lot. This last is its modern designation. Historically, interest in the Dead sea centres in the biblical narratives of Apraham and Lot, and the destruction of Sodom and Gomerrah At En-Gedi, on its western shore, David took refuge. To the south of En Gedi lies the fortress of Masada ·Sebbah), built by Jonathan Maccabeus, the refuge of Herod and Marismne when the Parthians took Jerusclem (42 B.C.), and the scene of the last stand and self-destruction of Eleazor and his devoted band of zealots after the fall of Jerusalem (AD, 70)this last a grim tale of Roman determination and Jewish heroism

In early times the sea was navigated, as Tacitus and Josephus bear witness, and under the crusaders the new navigation dues formed part of the revenues of the lords of Kerak. The Turkish sultans of more recent times regarded the sea as their private possession, and solo to individuals the exclusive right of putting boats on it. The Turks, with German assistance, put a fictilla of motor boats on the sea during the World War, and in 1922 one steamer, three motor boats and 14 sailing vessels were plying on

The tradition that the Dead sea covers Sodom and Gomorrah dates from Josephus. The site of the overwhelmed cities, whether under the waters of the sea at its north end or its south end, or on its eastern or western shores, commues to occupy the minds and excee the ingenity of investigators. Although the question is not fully resalved—if, indeed, it ever can be—the evidence seems to favour the south end, where, as we have seen, there was almost certainly dry land within historic times. That in this bitamicous region a violent earth tremor—to which, indeed the Ghor and its borders are peculiarly liable-should have brought into play eruptive forces whose catastrophic effects are indicated | in the Bible narrance, is more than probable. The recent (1924) jest especiation of the Xenia seminary and the American School by stage-coach), rode in the parade. Ft Meade headquarters of of Oriental Research sent out to locate the Cities of the Plain the Black Herse cavalry is on NE of Deadwood

ec ha hie her odom. Comorrah and Zear, at co and in the south-east corner of the Dead sea, on the lower courses of the only perennial streams in that region, the Numeiran the Esal and the Kuráhi respectively but now of course beneath the sea. Kyle and Albright would assign but one town to each watercourse and think that Admah and Zebourn must be sought esembere. Yet if they would but think of these perennial streams meanduring over the plain to meet the sea west of the Lisan the vision pictured is of an oasis like Damascas, a vernable 'garden of the Lord" where there would be room for Admah and Zeboim and indeed, many others.

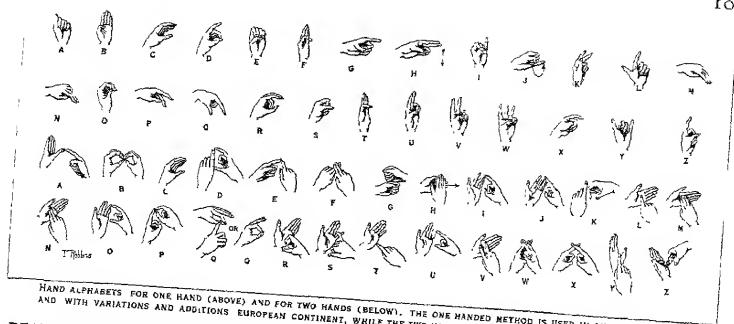
The dismal associations of its name are not borne out by the sea ase.f. The wild tale, of mediaeval travellers that in its poison ous air no plant could live, that over its dread waters no bird could fly and that no waves ever disturbed its gloomy surface. are figments of the imagination. The doom of Scdom and Gomorrah must needs be writ large on the waters that hid them "To think of this lake as sembre is quite an illusion, its intense colouring, its varied effects of light, its scarped overhanging slopes, broken by deep gorges, produce a picture of wild and sublime heauty." Its winter chinate, with a temperature of 75° F by day and 60 to 65° by night is probably the finest in the world. The possibility of the development of some cases on its south-east shore as winter resorts has been suggested. Here is the testimony of the Neniz seminary expedition, which spent part of the winter there in 1924: "With proper irrigation three large cases totalling perhaps 10.000 ac, could be made into a veritable tropical garden. The atmosphere was pure and refreshing and there was as little swamp smell as may be found anywhere along the shores of sair water. The scenery is beautiful, subume and romantic far beyond that of many of the winter resorts of the world. Under proper irrigation with the establishment of a motor boat and automobile line to Jericho and Jerusalem, this plain may soon vie with Luxor as a winter health resort "

The future of this, the most interesting of all seas, will be watched with interest whilst modern enterprise takes a hesitating step towards the fulfilment of Ezekiel's prophetic vision

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DEADWOOD, a city in the Black hills of western South Dakota, USA, am NE of Lead, the county seat of Lawrence county It lies in a narrow canyon 453oft, above the sea, on Federal highway 85, and is served by the Burlington and the Chicago and North-Western railways. The population in 1925 (State census) was 2 432 Deadwood is a headquarters for tourasts, and the commercial centre of a cartle-raising and gold-mining region. It has large stamp mills, smelters and cyanide mills. In 1875 the discovery of gold in this region was made public. The United States bought the land from the Sioux, and in 1877 opened it to settlement. Deadwood Gulch was the centre of the rush that followed, and its colourful history is commemorated by an annual pageant held in a natural amplitheatre rimined by steep bills At the celebration of 1927, President Coolidge was inducted into full tribal membership by the Oglala Sioux, and Deadwood Dick, a national hero among the boys of his generation (one of the shot-gun guard that protected the early shipments of gold



HAND ALPHAGETS FOR ONE HAND (ABOVE) AND FOR TWO HANDS (BELOW). THE ONE HANDED METHOD IS USED IN AMERICA IRELAND ARM ALFHADELS FOR ONE BARD (ABOVE) AND FOR ENG BARDS (BELOW). THE ONE BARDED BELLOOD IS USED IN AMERICA INCLAND AND WITH VARIATIONS AND ADDITIONS EUROPEAN CONTINENT, WHILE THE IWO-HANDED IS IN USE IN GREAT BRITAIN AND AUSTRALIA

DEAF AND DUMB, EDUCATION AND WELFARE OF THE. The term 'deaf" is frequently applied to those who are deficient in hearing power in any degree, however slight, as well as to people who are unable to detect the loudest sounds The reference here is to those who are so far handicapped as to be incapable of instruction by means of the ear Deafness, then is the incapacity to be instructed by means of the ear, and dumbness is ignorance of how to speak as an effect of deafness

Of such deaf people many can hear sounds to some extent Kerr Love quotes several authorities (Deaf Mutism, p 58) to show that 50% or 60% are absolutely deaf, while 25% can detect loud sounds, and the rest can distinguish vowels or even words He thinks that the ability to hear speech exists in about one in four, while ten or fifteen in each hundred are only semideaf He warms against the use of tuning forks or other instruments held on the bones of the head, when the vibration may be only felt not heard, as tests of hearing

EDUCATION

In the early ages the deaf were regarded as idiots and were killed out of hand. They had no place in the social order of things and were regarded as mere encumbrances. Later on, isolated cases are on record of the deaf being taught. The Venerable Bede relates that in 700 St John of Beverley taught a deaf mute to speak But it was not until the 16th century that any serious attempt was made to instruct the deaf. At this time, Jerome Cardan, who was born in Pavia in 1501, stated that the deaf could be instructed by writing This method was put into practice by a Spanish Benedictine monk, Pedro Ponce (b 1520). Another Spanish monk. Juan Paulo Bonet, taught the deaf to speak He published a book on the subject in 1620.

Great Britain.-In England, Dr John Bulwer in 1648, and Dr Wilham Holder in 1669, both wrote on the subject of teaching the deaf and dumb. In 1630, George Dalgarno, a Scotsman, wrote his Deaf and Dumb Man's Tutor In 1760, a school for the deaf was opened in Edunburgh by Thomas Braidwood, and one in Paris at the same time by the Abbé de l'Epée. In 1783 Braidwood moved to London and in 1792 the London Asylum for the Deaf and Dumb was founded. This was the first British Insti-

Up to nearly the end of the 19th century the education of the deaf was provided for mostly by charity. In 1893, the report of the Royal Commission which had been appointed to consider the condition of the blind and deaf, was published. As a result, the Elementary Education (Blind and Deaf Children) Act was passed. This provided for the compulsory attendance at school of deaf children between 7 and 16 years of age, and made it the

duty of Local Education Authorities to make suitable provision for the education of the deaf. In this way State action was established

Although the compulsory age for attendance at school is 7 years, children are admitted much earlier Deaf children receive their education in day schools and residential schools. The day schools are maintained by Local Education Authorities and, with the exception of eight which are maintained by local education authorities, the residential schools are provided by voluntary committees. For the year ended March 1927 there were 50 schools. day and residential, with an accommodation for 4,826 pupils in England and Wales Children are mostly taught by the oral method, that is by means of speech and speech-reading, although a proportion do not benefit by this method. These are taught by means of writing and a manual alphabet. The curriculum in schools for the deaf includes besides speech and speech-reading, the ordinary elementary school subjects. Vocational training is given in boot-making, cabinet-making dress-making, laundrywork, etc The London County Council provides the following schools for its deaf children (1) Six day schools for deaf children up to 13 years of age (2) Five day schools for partially-deaf children. (3) One residential school for deaf boys from 13 to 16 years of age, with provision for vocational training (4) One residential school for deaf girls from 13 to 16 years of age, with provision for vocational training. (5) One residential school for deaf boys and girls up to 16 years of age who have a defect other

The National College of Teachers of the Deaf has for many years past advocated the scientific classification of deaf children for the purposes of instruction according to the history and degree of their deafness and their mental condition Clearly, the partially deaf and those who lose their hearing after the habit of speech has been naturally acquired, stand in a different relation to education from the deaf born, whose minds have never been stimulated by heard speech. Up to comparatively recent times, both types were grouped together for instructional purposes. The movement to give these children the advantages of a hearing environment and to train them by methods adapted to children who hear is steadily growing, and schools for partially deaf children are increasing in number. This is only part of the classification necessary to ensure that such type and condition of deafness shall receive the special educational care it needs. The London County Council Institution for the defective deaf at Penn is another step in this direction

The Board of Education is the official department which issues statistics relating to the deaf and these necessarily apply to children. The incidence of deafness in children as shown in the

to orms of the Asial Calling in althoration for 1914 that Bi per a dod ohe liter. The at the food of hoursess in schema fall ten notices very wouldy in distance to local pales shown in the coincidental out era report to be 3 to por 1000 thather in the Islas of Stally , and is a Section t

The unit, tairputy of trealing schools for the cool in this each my to the medical branch of the B and of Decearior and all who is are then to inspection by the third medical inspector and his still. The British Driff and Dunty Association is a national map to setting of the failth should not be the leavers hearing in their of the bir the tare sociation

The great released in the relative on er one dust during the 20th imitted earlier retury established their fitness for higher e lurgitudal and techand training. With this court own the leaders of the schools and weltare societies for the deaf infrated in 1923 a movement or the reconstitution of the then national bareau for promoting the general wetfare of the dark established in 1911, which was reorganized as the National Institute for the Donf and came into being in April 1925. The main attention of the Institute has ' been devoted to the industrial conditions of the deaf, the conditions of the deaf in poor-law institutions and mental hospitals,

tener citizenship of the dout The general objects of the Institute are - The prevention of deafness, the education of the deaf including the proper administration of the law effecting the attendance of deaf chadren at suitable schools, and the furtherance of their early training, the re-ecucation of the partially ceat through speech-reading, the provision of efficient training in trades for children leaving school, and of apportunities for continued academic study: the adjusta ent of critical and trade regulations where they operate harshly against the deaf worker, the provision of opportunities for the higher education of the deaf, the adequate care of the blinddeaf and the mentally defective deaf, the social elevation and furer citizenship of the deaft supplying information to and advising public departments private bodies, and individuals needing assistance, and generally, by propaganda, whether in the way of local or national action, to influence the public in favour of the deaf, with a view to bringing about necessary reforms.

International Action.-At the International Conference of Teachers of the Deaf held in London in 1925, which was attended by leading experts from some 15 nations, recommendations were adopted urging the need for opportunities for the higher education and technical training of the seaf after school age; the estabhaliment of classes for the partially deaf in connection with schools for hearing children, such classes to be taught by specialist teachers of the deaf; the enforcement of a compulsory hearing test in elementary schools in order to ensure the detection and treatment of deafness in its early stages the appointment of national committees to enquire into, and report upon, all matters affecting the education, training industrial and social conditions of the deaf in the various countries represented; and the estabhishment in every country of a national organization to promote the general interests of the deaf throughout hie. The Conference also decided to establish an international organization of teachers

Denmark.—This was the first country in the world to introduce by reyal decree in 1317 compulsory instruction for deaf children. The tiest school was opened at Copenhagen in 1807 The State provides for the education of all deaf children. The compulsory period of education is 8 years, children being admitted to school between the ages of 7 and 8 Classification is good and most of the children are taught crally. A proportion are taught by means of writing and spelling.

Norway.-As in Denmark the education of the deaf in Norway is undertaken by the State. For this purpose the country is divided into two districts, perth and south, each having a school where papels are admitted annually. There is a private agriculfixed and Inide school in South Norway.

Sweden.—Up to 1026, unlike other Scandingvian countries. the education of the deaf in Sweden was undertaken by local authorities, the State only allowing a grant per head for this purpose. In 1927 there was a measure before Parliament providing for State control.

Holiand.—Instruction for the deaf goes as far back as 1-90 when an Institute for the Deaf and Dumb was founded at Greningen Dutch schools for the deaf are all private and are substituted by the state and municipal authorities. Children are night on the crail method, and nearly all pupils learn a trade

France.—The Act of 1882 made instruction for deaf children compulsory. Besides several state schools there are many schools which are controlled by religious and private bodies. The Na tional Institution in Paris was founded in 1785. The one in Borderux ia 1795, and the one in Chambery in 1860. The age of admission of children is 6 years although children may be ad-

Japan.-The education of the deaf in Japan is of compara tive y recent growth. The first special school was established in Kyotc in 1973 In 1923 a bili was passed by Parliament granting state aid to schools for the deaf

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UNITED STATES

The increasing emphasis on oralism in the United States is breaking down the barriers that separated the totally or partially deaf from normal people when only signs were used The teach ing of speech and lip-reading is now generally prevalent so that the word "dumb" is stripped of its one-time significance in America As the deaf are educated, they cease to be dumb. The larter word has been eliminated by law from titles of institutions According to the 1920 census the deaf numbered 44,885 but an unofficial estimate of totally and partially deaf runs into millions

Education.-The first attempt to teach a deaf-mute recorded in the United States was Phihp Nelson's in Rowley, Mass. 1679 From 1773 to 1776 there was a deaf boy in John Harrower's school, Fredericksburg, Va, but not until the early 19th century was concerted action taken to educate deaf children. Francis Green, of Boston, whose deaf son was sent to Edinburgh to be educated at Thomas Braidwood's institution, became much interested in the problem. With some ministers, he attempted a census of Massachusetts, 1803 when 75 deaf were found. They then estimated 500 deaf in the United States and urged the creation of a special school. In 1810 in New York, the Rev. Dr. John Stanford found several deaf children in the city almshouses and tried to instruct them, efforts which later resulted in the founding of the New York institution. A grandson of Thomas Braid wood, John Braidwood, began to teach a family of deaf children in Virgmia in 1812, later establishing a school. After six precarious years alternately in that State and New York, he died, and the first American oral school for the deaf ended. Meantime, the case of Alice Cogswell, the deaf daughter of a Hartford physician, interested a group of men Their investigations, 1812 disclosed 84 deaf in the vicinity They estimated 400 in New England and 2,000 in America In 1815 they organized a society to instruct the deaf, raised \$2,278 and sent a young minister, the Rev Thomas Hopkins Gallaudet, to Europe to learn methods of teaching the deaf Gallaudet studied the sign language method at the Abbe Sicard's school m Paris, which influenced the whole course of the education of the deaf in America When Gallaudet returned in 1816, he was accompanied by the celebrated Laurent Clerc, himself deaf, one of the Paris institution's teachers. On April 15, 1817, the Hartford school was opened with subscriptions from New York, Philadelphia, Albany, New Haven and other cities amounting to \$12,000 and an appropriation of \$5 000 from Connecticut, probably the first made in the United States for other than regular schools. It used the sign language of de l'Epéc and Sicard, the manual alphabet and writing as the basis of mstruction. In 1819 the Federal Government granted 23.000 ac of public land, the proceeds from which formed a fund of \$339,ooc The New England States, Georgia and South Carolina (beginning 1834) sent deaf children to the school, renamed American asylum.

In May 1818 the New York Institution for the Deaf was

opened Of the 62 attending 32 were "charity pupils" provided for by the city. Thirty-eight belonged to distant parts of New York State, 19 to the city, four to New Jersey and one to Connecticut. After an exhibition by the students in 1819 the State egislature appropriated \$10,000 and granted "a moiety of the tax on lotteries in the city of New York" which for 14 years formed a good income

In Philadelphia. David Seixas began teaching deaf children in his home in 1819 or early in 1820. His work was noted by a group of citizens who, after an exhibition of results accomplished in 1821, helped to secure a charter and a per caput appropriation from the State of \$160. The Hartford school lent him Laurent Cierc New Jersey began at once to send pupils to the Pennsyivaria institution Maryland followed in 1827 and Delaware, 1835 Kentucky in 1823 was the fourth State to establish a school for the deaf, the Kentucky asylum at Danville, which was the first school established distinctly as a State enterprise. Other States followed. interest in many cases in the South being aroused by tours of the educated deaf who exhibited what could be done for these hitherto neglected members of society. In 1863, there were 22 schools for the deaf with 2 012 pupils. Within 60 years of the first foundation they were established in 31 States, great areas of public land being granted in several instances as in Connecticut and Kentucky, for such purpose In all the institutions, up to 1867, the manual system of instruction held sway, though the oral method had been tried at the New York institution

In 1867 the Clarke school, Northampton, Mass, the first permanent oral school in the United States, was established. Gardiner Hubbard, a Massachusetts senator, whose daughter lost her hearmg when four and one-half years old, tried to establish an oral school and unsuccessfully applied for a charter in 1864. Then the work of Harriet B Rogers with Fannie Cushing, a deaf-mute came to his notice He and his friends financed a small, private oral school in 1865 An exhibition by these pupils of Miss Rogers m 1367 convinced the legislature that so-called deaf-mutes could be taught to converse. A great step forward in the education of the deaf was thus made Massachusetts voted for the incorporation of 'an Institution of Deaf-Mutes at Northampton'; for "primary instruction of younger pupils than were then received", and for "a longer term of instruction of pupils aided by the State" The Institution for the Improved Instruction of the Deaf, New York. also came into being in 1867 instituting oral instruction. Both schools exerted an influence on the early education of the deaf

Educators of the deaf divided themselves into those who tavoured the manual system supplemented by articulation and those who taught speech and lip-reading, vetoing the manual method. Manual teachers maintained that certain deaf-mutes would never learn to speak and to read hps, oral teachers consalered it unjust to separate the deaf from the hearing because of lack of instruction in the use of vocal organs. Dr Edward Hiner Gallaudet's stand for the teaching of speech to deaf children after his extended European tour of 1867 influenced many instructors. In 1886 tension had sufficiently modified to permit the convention of Instructors of the Deaf to pass noteworthy resolutions urging endeavours in the schools to teach every pupil to speak and read from the lips. The resulting "combined system' is defined in the American Annals of the Deaf, the instructor's official organ, as -

Speech and speech-reading are regarded as very important, but mental development and the acquisition of language are regarded as still more important. It is believed that in some cases mental development and the acquisition of language can be best promoted by the Manual or the Manual Alphabet method, and, so far as circumstances permut, such method is chosen for each pupil as seems best adapted for his individual case. Speech and in the call is the control of where the measure of success seems likely to j Cremorrope a Prakasa Ngjara and in some of the classrooms of most of schools the Oral or the Auricular method is

The combined and the oral systems came into increasing use Yet even in 1904 the World's Congress of the Deaf at S Little tuled that champions of the oral method were not friend. It in deaf and that every teacher of the second of the second of knowledge mis amount of the large teacher of the second of knowledge mis amount of the large teacher of the second of knowledge of the second of the seco Byr<u>i</u>⊾ (d -1, (were the story Mager chart

Boston was the first, starting Nov 10 1369 under Sarah Fuller. principal for 41 years, who gave Helen Keller her first lessons in speech. The number of day schools increased slowly up to 1894 when there were 15 and more rapidly thereafter. In 1901 for instance, they numbered 49 with 835 pupils; in 1915, 64 with 2.10g pupils and in 1926 101 with 2 972 pupils. Pupils from oral schools have passed on to high schools and colleges, holding their own with those who hear, and graduating successfully. New York State, to promote such higher education, provides a per caput sum of \$300 that a hearing note-taker may attend college lectures with the deaf student and take full notes for the latter's use

The situation may be summed up in the conclusions of the 1934-25 survey made by a committee of the National Research Council financed by the Laura Spelman Rockefeller Memorial The typical school does not prohibit the use of manual spelling Pupils who after ample trial do not make satisfactory progress orally are transferred and taught in the manual classes. Of the three methods of education in practice the oral, manual and combined no one method is superior to the others, taking into account the educational achievement of the pupils and their basic intelligence. The beginning of the 20th century saw a further development in educational methods. It was realized that the percentage of the totally deaf is small. The 1924-25 survey disclosed that but 3% of the children tested were without any hearing and the average had 25%. As early as 1836 attention had been drawn to auricular training by the commissioner of education commenting on the work of the Nebraska Institution for the Deaf to educate the brain to use the hearing so that speech might be gained Increasingly, greater stress is being laid on the development of the remnant of hearing, known as residual hearing, really an integral part of the oral method, so that sounds and language ideas are associated. Authometer tests have shown pupils to have from 5% to 85% of available hearing actury Auricular training by means of exercises teaches the child to perceive the sound of the human voice and to interpret it, giving a vocabulary, improving speech and increasing activity in the psychic accustic centres

Provision for the education of the deaf in local institutions is made by the different States as a general rule. Only in Delaware, New Hampshire, Nevada and Wyoming are deaf children sent at public expense to a school outside the State. Several of the southern States have at least two institutions, one for white children and the other for coloured Only nine States have compulsory attendance laws for deaf children Indiana, where the age is 7-18; Iowa, 12-19, Maryland, 6-18; Minnesota, 8-20, North Carolina, North Dakota. 7-21, Rhode Island, 7-18; West Virgima, 8-25; and Vermont

Higher Education,-The United States is the only country with a college of accepted standard for the deaf, awarding the usual masters' and bachelors' degrees in art and science. It was established in Washington, DC, in 1864 as the highest depart ment of the institution of the deaf and dumb founded by Congress in 1857 First known as the National Deaf-Mute college, it was renamed Gallaudet college in 1893, and with the Kendall school (secondary) forms the Columbia Institution of the Deaf In 1886-87 women were admitted to the college. Its graduates have successfully pursued special courses at Johns Hopkins, George Washington, McGill and the Universities of California and Pennsylvania Of 353 graduates, III are teachers, 66 home managers, 36 printers and publishers, 24 farmers, 31 in business, 20 in chemistry, 17 in the ministry or training for it, and 11 acting as supervisors or in charge of athletics in the schools.

Teachers of the deaf are educated in the oral method at Clarke school; in the combined system at Gallaudet college; at the Central institute. St. Louis, Mo; and at the Institution for the Improved Instruction of Deaf-Mutes, New York. Several schools in Illinois, Indiana, Ohio, North Carolina, Pennsylvania, Oklahoma, Ya York Committee in Virginia and other States have at differ-I is a ready normal classes

Ire \c' - B : - the increase and diffusion of knowledge 11-" (a v.), who had taught his father's "visible speech" system

de o ea o B a 1ã ⊅t & 5 87 nance that have not at

Bill of the formul Reforts of the US Commissioner of Education for the Russi Prince and Done'd G. Faterson. A Measure of the Language Admity of Diar Codding, Psychological River, 11,17, Dr. Percual Hall, Electric of the Dest (Bureau of boundary 1,25), Edward Wherer Scapture Statement, Lucing and I have a first the Dest of the Dest (125). G. Shory Haycock, The Idea to a first Dest of the Dest (125), Dr. Caronne A. Vale, Special Trap as at Least Children, I this Restrict (1426).

DEAF-MUTISM, MEDICAL ASPECTS OF. Mutism. or discharge is almost always due to maillormation or discuss of the ear. Children learn to speak by unitaring close about them ! who speck. Cases have occurred in which a chied with normal? hearing prought up by deaf and dumb guardians in an isolated cottage in the mountains did not learn to speak until it came into contact with speaking people in a town

The air vibrations constituting sound are conducted through the outer ear passage to the tympanic membrane and from this through a their of three small bones in the middle-ear to the under ear or laryrigh—the essential part of the organ of hearing The inner ear itself consists of it the cochles which is concerned in hearing, and (2) the vestibule and three semicircular canals which together are concerned with body equilibrium (See Ear; Heasing) From the unner ear the cochicar and vestibalar nerves pass to the corresponding centres in the brain

Lesions of the ear producing decliness so great as to cause a child to become muse are almost always situated in the inner ear Deaf-mates are usually classified into (A) congenital cases due to error in development of the ears and (B) acquired cases in which the ears normal at birth, become diseased in childhood. Less than haif the cases of deci-mutism are congenital.

(A) Congenital cases are of two kinds: (1) "endemic" deafmutism, peculiar to certain districts or countries, e.g., Switzerland, and associated with cretimsm and gostre (see Cretimism). Here the lesson is in the middle ear; the drum cavity, which should contain air, being more or less filled up by connective tissue or bone. Deziness may not be very marked and the mutism is due mainly to the poor mental development of the patient (2) The great majority of cases of congenital deafness are due to faulty development of the inner ear. This condition is known as "sporadic 'deaf-mutism and is not uncommon in Britain. In the most marked instances the bony and membranous labyrinths are absent, while in the least severe cases only the membranous cochlea is involved Between these two extremes there are several degrees of maldevelopment. Many of these patients have considerable remains of hearing. The vestibular or balancing apparatus in these cases is usually free from any developmental defect.

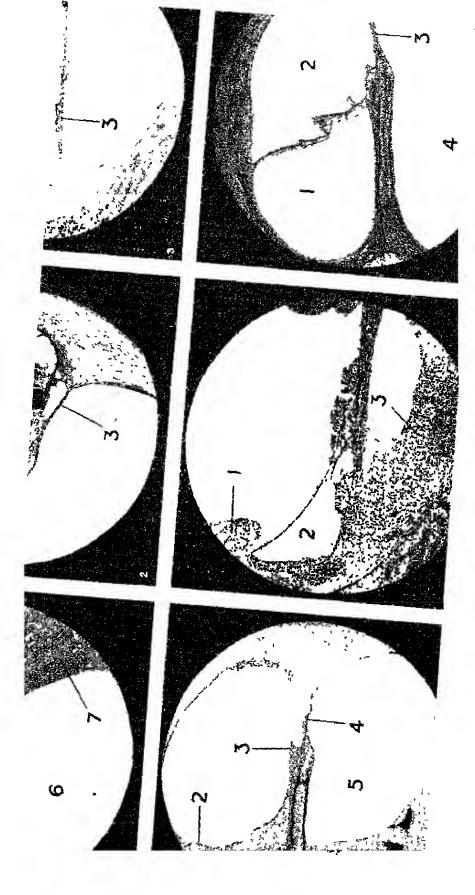
(B) Acquired deaf-mutism is due to injury to, or disease of, the inner ear. The deafness may only occur after the child has learnt to speak, but a child watch has already acquired fluent speech may quickly become dumb if it loses its bearing, unless special training is begun at the earliest possible moment. The deafness may be produced by such conditions as (1) fracture of the base of the skull, which sometimes results in destruction of the organ of hearing on both sides; these cases are rare (2) Suppurative disease in the middle and inner ears caused by severe ! attacks of scatlet fever, measles, or influence. In these diseases the infection may pass from the nose and throat up the Eustachian tube to the dram cavity, and to the mastoid process which lies behind (As long as the infection remains localized to the middleear spaces the deafness is seldom or never so severe as to give rise to deaf-mutism, though the children are often so "hard of hearing" that they cannot be educated efficiently in an ordinary school) When the infection spreads from the middle to the inner ears, it gives rise to such severe changes that deaf-mutism results Both the middle and inner ears on each side are filled with pus and, if the patient recovers, the inner ears are more or less oblicerated by the formation of connective tissue and new bone, with consequent destruction of the nerve endings of the hearing i

Faj ou wards for he brain to the inner ear on each A . a. pre- side along the sheate of the nerve of hearing. These calldren, + of the section of the second of the second of and when they recover from meningitis, are not only deaf but sceeta to the one tro largest ergenisation of teachers and friends have lost their power of balancing for a time and have to learn to walk again. (4) Inherited syphilis which, in Great Britain, is responsible for about 5% of cases of acquired deaf-mutism. In tness parients deafness does not occur until the child has, as a rule reached the age of time or ten years-a period at which it has of course already learnt to speak (5) Otosclerosis in which there is a formation of spongy bone in the normally dense bony capsule of the inner ear that impedes or prevents movement o the states. This disease is a common cause of deafness in early adult life, especially in young women, but rarely occurs so early as to render the patient a deaf-mute

The clinical eventination of a case of suspected deaf-mutism is not easy. The observer has little or no means of communication ing with the child. If the parents are both congenital deaf-mutes and the child is one of a family of deaf-mutes, there can of course be no difficulty in making a diagnosis, but the case is not orten so clear as that We have to seek the aid of knowledge derived from Mendelism before we can explain many of the sporadic cases of deaf-mutism (See MENDELISM) The history as obtained from the child's parents is often far from accurate, as they are unwilling to acknowledge, in congenital cases, that the child has never heard, and adduce such facts as that "the child notices a door slamming or a band passing in the street" as proof or hearing. The dear-mute of course feels the vibrations caused by such disturbances Further, the mother often states that the child can say "Mamma" and considers that this shows that it can hear, whereas an intelligent congental deaf-mute may pick up such a word by watching its mother's lips. Even with regard to cases of acquired deaf-munsm the history of the case is often at fauit, the deaf-mutism being attributed to "vaccination," or "fright,' when subsequent enquiry and examination show that it has really been due to meningitis, or to the results of middle-ear disease If the tympanic membranes show the effects of middleear suppuration and if the deafness has only come on after the child has learnt to speak, one may be certain that the mutism has been acquired. In other cases where the deafness has only come on at the age of eight or nine years, examination may show that the upper central incisor teeth are peg-shaped and notched and that the cornea has become cloudy as the result of congenital syphilitic infection Cases of acquired deaf-mutism due to memngitis in infancy are bard to diagnose, but as a rule a clear history is obtained if the meningitis occurred in later childhood. These children are totally deaf. The rare cases which are caused by fracture of the base of the skull are also not difficult to diag-

Considerable help in the clinical diagnosis of deaf-mutism may be obtained from examining the semicircular canal apparatus or balancing portion of the ear A normal child, if turned round rapidly in a rotating chair, becomes very goddy and shows twitchmg movements of the eyes (nystagmus) Cases of congenital deaf-mutism, in which the maldevelopment is confined to the hearing portion of the ear, react like normal children but cases of acquired deaf-mutism due to destruction of the labyrinth from any of the causes described above almost invariably fail to become giddy on rotation. Another method of testing the balancing portion of the inner ear is to syringe the ear with cold water. In a normal person such syringing produces gaddiness and twitching movements of the eye and, if too prolonged, induces vomiting Here again congenital cases react like normal children, while the acquired cases are not disturbed even by the most prolonged cold syringing Nevertheless, it is not possible in every case to classify the child as a congenital or as an acquired deaf-mute.

The hearing power of children who are suspected of being deafmutes may be tested in various ways, but it is impossible to be quite certain that a child has been born deaf before it reaches the age of one year. It is best to have the child seated on the kace of its mother or nurse and to attract its attention by showing it some small object. (In some cases the question arises whether the absence of response to sound is due to deafness of it and balancing apparatus (3) Meningitis, the injective material idiocy The true deal-mate child is generally mentally sleet and





at on e takes not ce of a coin or a watch shown o t An a s nt s ands well behind he child and blows a whistle sounds a a le or lan his hands and the obser er notes whether the hid pays attention to the loud noise suddenly created behind it The assistant must not stand too near, otherwise the child may feel the vibrations caused, for instance, by the clapping of hands It is worthy of note that both normal and deaf-mute children can cry but that only the normal child can laugh) At a later age tuning-forks of varying pitch may be used to ascertam whether the child can hear them when vibrating close to but not touching the ear. Vowel sounds may also be spoken in a loud voice into the child's ear, but he must not be allowed to see the face of the evaminer, as a good "lip-reader" may detect from the face or lips the particular vowel which is being used. Some deafmutes have a fair amount of hearing which may be used for educational purposes, indeed there are at the present time in deafmute schools many children who should really be educated in special schools for the hard-of-hearing. Such schools, however, exist in but few centres in Great Britain. For education and training of deaf-mutes, see DEAF and DUMB.

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DÉAK, FRANCIS (FERENCZ) (1803-1876), Hungarian statesman, was born at Softor in the county of Zala on October 17, 1803 Of an ancient and distinguished family, he was educated for the law and practised first as an advocate and ultimately as a notary. His reputation in his own county was quickly established and when in 1833 his elder brother, Antal, was obliged by ill-health to relinquish his seat in the Hungarian parliament the electors chose Ferencz in his stead. No man owed less to external advantages. He was to all intents and purposes a simple country squire. His true greatness was never exhibited in debate. It was in friendly talk, generally with a pipe in his mouth and an anecdote on the tip of his tongue, that he exercised his extraordinary influence over his fellows. He convinced them from the first of his disinterestedness and sincerity, and impressed them by his instinctive faculty of always seizing the main point and sticking to it Perhaps he is unique in history, for though neither soldier nor diplomatist, nor writer he became the leader of a great party by sheer force of intellect and moral superiority. This is all the more remarkable because he appealed to no passion but patriotism, and avoided power instead of seeking it.

During the struggle between Austria and Hungary for the preservation of the Hungarian constitution, Déak and Count Stephen Szechényi were the leaders of that party who wished all proceedings to be conducted in a strictly legal manner, and who therefore were opposed to the extreme revolutionary methods of Kossuth and his followers. In the diet of 1839-40 it was Déak who brought about an understanding between a reactionary government in need of money and recruits for the army and a Liberal opposition determined to vindicate Hungary's political rights He did not sit in the diet of 1843-44 because his election was the occasion of bloodshed in the struggle between the Clericals who would have ousted him and the Liberals who brought him in After the consututional victory of 1848 be became minister of justice in the Batthyany ministry. All through the stormy days that followed, culminating in the War of Hungarian Independence, he never ceased to urge moderation and the adoption of a strictly legal position, but Kossuth and the extremists got the upper hand "You cannot argue with a drunken man," he is reported to have said, "and at the moment the diet is drunk" When it became obvious that the Vienna Government did not intend to keep its promises to Hungary, Déak resigned with Batthyany, but without ceasing to be a member of the diet. He was one of the parliamentary deputation which waited in vain upon Prince Windischgratz in his camp. (See Hungary. History.) He then retired to his estate at Kehida. After the War of Independence he was tried by court-martial but acquitted.

Atte 1854 he pert he greater part of his time in Pest, where his room at the Queen of England' into became the centre for those patriats who in the dark days of the Bach administration locked to his wisdom for guidance. He did all in his power to stimulate the moral strength of the nation and to keep its hopes adve. He considered armed resistance dangerous, but he was the immutable defender of the continuity of the Hungarian constitution on the basis of the reforms of 1848. The Kossuth faction looked for salvation to a second war with Austria engineered from abroad, while the followers of Szechényi adopted an attitude of resignation, equally repugnant to Déak

The Italian war of 1859 convinced the Austrian Government of the necessity of a reconciliation with Hungary Bach was replaced by Schmerling and an imperial patent of April 19 1860 removed some of the chief grievances of the Magyars. The October diploma of the same year was intended to provide the empire with a federal system of government on constitutional lines Déak rejected it, but at the request of the government he went to Vienna to set forth the national demands. He insisted on the re-establishment of the constitution in its integrity as a sine qua non. On February 16, 1861 the government withdrew the diploma and issued a patent which was a return to the former centralist and bureaucratic system On April 6 the diet met at Pest Deak rose to defend the national right and traditions and on June 5 moved an address to the crown refusing to recognize the February potent, insisting on the laws of 1848 as the sole basis of accord, and reminding the Emperor that an uncrowned king was no true sovereign of Hungary The speech of Déak on this occasion was his finest effort and he was acknowledged the leader of the nation by all parties. He next proposed to the emperor that he should break away from counseilors who had sought to oppress Hungary, and restore the constitution as a personal act. The emperor thereupon dismissed Schmerling, suspended the February constitution and summoned the coronation diet. Of that diet Deak was the indispensable leader, and all parties left him to conduct the delicate negotiations with the emperor The committee of which he was president had completed its work when the Austro-Prussian War broke out. The extreme party would have used the defeat of Koniggrátz to extort still more favourable terms, but Déak made it easy for the emperor in the hour of his humiliation. To his question, "What does Hungary demand?" Deak answered, "Nothing more after Sadowa than before it" On Feb 18, 1867 the restoration of the Hungarian constitution was publicly announced in the diet, and a responsible ministry was formed under the premiership of Count Julius Andrássy. Deak himself refused to take office. There was still one fierce parliamentary struggle in which Deak defended the compromise (Ausgleich) of 1867, both against the Kossuthites and against the Left-centre, which had detached itself from his own party under the leadership of Kálmán Tisza (qv). It was the wish of the diet that Déak should exercise the functions of a palatine at the coronation, but he refused the honour, just as he had refused every other reward and distinction, "It was beyond the king's power to give him anything but a clasp of the band. ' His reward was the assurance of the prosperity and tranquility of his country and the reconciliation of the nation and its sovereign. This service reconciled him to the loss of much of his popularity; for a large part of the Hungarian people looked upon the compromise of 1867 as a surrender and blamed Dêak for it He died at midnight of July 28-29, 1876, his funeral was celebrated with royal pomp on Feb 3 A mausoleum was erected by national subscription and in 1887 a statue overlooking the Danube was erected to his memory

See Speeches (Hung) ed. by Manó Kónyi (Budapest, 1882); Z Ferenczi, Life of Déak (Budapest, 1894); Memorialy of Ferenczi Déak (Budapest, 1889–90); Ferenczi Pulszly, Charakterskieze (Leipzig 1876); R Springer, Die Krise des Dualismus und das Ende der Déakistischen Episode in der Geschichte der Habsburgschen Monarchie (Vienna and Leipzig, 1904), L. Eisenmann, Le Compromis Austro-Hongrois de 1867 (1904).

DEAKIN, ALFRED (1856-1919), Australian statesman, was born at Melbourne on Aug 3, 1856. Educated at Melbourne university, he was called to the Victorian bar in 1877. He entered the Victorian legislature in 1880, and from 1883 onwards held

i - her tre ___ on mer ... he respectate IV L 100 theres, The was represely observe to how, until 1900. In that reeded as It me my later in 1903. During his lemslative career in , that the works is threatened with a soft-wood famine Victoria ne mas active in prometing social legislation and and fiscal pulies he pursued during his caree Fedural premierables emplose the for the transfer that the supporter Australias for l operation in imperial desence being responsible for the inception of the measure authorizing Australian naval construction in 1909. and for the invitation to Lord Receiver to visit Australia and report on the outerron of crience. After 1910 he led the Opposition in the Australian parliament until compelled to retire, owing wrote three books on irrigation in Western America (1835) in ! Egypt and Rany (1887) and in India (1892). The Irrigation Act of ASS was largely his work

Lee W. Murdoch, Altred Deskin (1923); B. R. Wise, Hahme of the du rahin Commonwealth (1913)

DEAL, a market town seaport and municipal borough in the N of Dover on the Southern railway. Pop (1921) 12.998. It consists of Lower Deal on the coast, Middle Deal- and about a mile inland though formerly on the coast. Upper Deal, which is the oldest part. Frequenced as a seasing resort the town derives further importance from its vicinity to the Downs a fine natural roadtrick between the shore and the Goodwin Sands about a m. long and 6 m wide, in which large fleets of windbound vessels may lie protected against the north, west and easterly goles. The trade consists in the supply of provisions and naval stores, which are conveyed to the ships in need of them by "hovellers," as the boatmen are called along the Kentish coast. The Deal hovellers, pilots and lifeboatmen are famous for their skill. Boat-building and a few other industries are carried on St Leonard's church in Upper Deal dates from the Norman period. The site of the old navy yard is occupied by villas. The esplanade, nearly four miles long extends through Walmer to the south, and north to the runs ! of Sandown castle and is provided with a promenade pier owned by the corporation. The golf-links is well known. At the south end of the rown is Deal castle, erected by Henry VIII. in 1539, together with the rastles of Sandown, Walmer and Sandgate. They were built alike, and consisted of a central keep surrounded by four luneties. Sandown castle was the prison in which Col-Hutchinson, the Puritan soldier, was confined, and is said to have died, September 1664. It was removed on becoming endangered by encroachments of the sea The "captain" of Deal castle is appointed by the lord warden of the Cipque Ports The town is governed by a mayor, 6 aldermen and 18 councillors

Deal is one of the possible sites of the landing-place of Julius I Cassar in Britain. Later in the period of Roman occupation the site was inhabited, but apparently was not a port. In the Domesday Survey, Deal IDole, Dole, Dele) is mentioned among the possessions of the emons of St. Martin, Dover, as part of the hundreds of Bewshorough and Cornilo, it seems, however, from [early times to have been within the liberty of the Cinque Ports as a member of Sandwith, but was not continuously reckoned as of a reason to te. (" --) the time of Henry The Drawes occur and end of saving belf-a-mile from the sea by the grace of the area, and the increase of the talk the more and and are are in increased number hots or the Man I was to have the ben built along the there Where IP to the the there were as ed the town under the first of first, such and a remarky of Deal, and he also grouped a market par build with a count of The Pointer. De

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DEAL. A British term commonly used to designate the sort year he warre to Lordon to discuss with Chambeellan more par- , woods derived from the Scotch pine (Pinus sylvestris) which is incularly the legal pair is in the Australian Commonweal a Consultance of velocity or red deal, and the sprace or (Abres excelsa) which trainen Bill in Victoria his manual specimes he gover the Federial is called white deal. The former is by far the better timber tion movement and in 1901, as attorney several he was included | Deal is freely imported into the British Isles from Scandinavia ir the first Federal attends of Sir Edmund Borton whom he suc- and Russia and so widely used for building and other purposes

The term deal (derived from Dan deel plank) is also used ament at a safe of profesence in taxous at Great Britain. This has the name of a soft-wood measurement. A deal in England is a piece of pine wood sawn cm wide and 2 to 4in thick, not less than 8ft long. (See Timber)

DEALER, one who seek at retail to the public. This term is used to cover nearly all retailers except department and chain stores and in the loose parlance of trade it is sometimes applied to the individual unus of chain-store systems. The term 'dealer' formerly meant one who bought and sold primarily without a place to ul-health in 1912. He died at Melbourne on Oct. 7, 1919, to stock a quantity of merchandise, he was sometimes also referred Dealers had made a special stady of the imagenous problem and to as a "curb dealer", it, one who transacted his business from the sidewalk.

DEAL-FISH, the name applied to marine fishes of the genus Trachypterus, which together with the our-fish (q v.), comprises the family Trachypteridae, or ribbon-fish Deal-fish inhabit the middle waters, probably not below 200 fathoms, and are charactermed by their long laterally compressed bodies, short head, Dover parliamentary division of Kent, England, 91 m NE, by marrow mouth and feeble dentition. The dorsal fin extends the tength of the back, the anal is absent, and the caudal, when present, is reduced. The pectoral fins are small. In young dealfish some of the fin-rays are prolonged in an extraordinary way. Deal-fish may reach a length of eight feet. They have a worldwide distribution. All the specimens found at the surface of the sea have been more or less mutilated by the release from the enormous pressure under which they are accustomed to live. The commonest species is T. arcticus

> DEAN, premarily one having authority over ten, the title of an ecclesiastical dignitary, or of a university or civil official (Lat decanus, from Gr ôeaa, ten).

> The original use of the word decamis was evidently to denote a military grade, it occurs in this sense in the De Re Militari of Vegetius (c. 386). Slightly later (c. 400) St Jerome uses it in the Valgate instead of the decurio of the Old Lann version. for the 'rulers of tens" in Exod. xviii. 21, 25. It was also applied, from the late 4th century onwards, to the members of a gild, whose occupation was the burial of the dead, as well as to certain minor officials of the imperial household, and in later times of the empire to various civil functionaries. In the Visigothic and Lombardic codes it occurs as the title of a subordinate judge, having jurisdiction within a district called a deanery (decame) or tithing. in the Angto-Saxon system the corresponding official was entitled dean, tithing-man or head-borough

> In monastic life the term was used at an early period to denote a monk having charge of ten monks (St. Augustine, De Mor Eccl Cath . i. 31, etc.); and it occurs in this sense in the Rule of 51 Benedict (ch. 21). As monachism developed the title came to be applied to various special functionaries, e.g., foris deconus, the monk responsible for the external business of a monastery.

> In its now most familiar use, as denoting the head of a cathedral or collegiate chapter, the title probably owes its origin to this menastic usage, since many of the cathedrals were in the charge of menks. In the 8th century the deconus as a cathedral official was subordinate to the prospession or provost, who presided over the chapter as the bishop's vicegerent; but during the next few centuries deans were almost everywhere substituted for provosts

> The office of rural dean, representing one type of the earlier archariest (q.v.), is of great antiquity in the Western Church, going back to the time (at least as carly as the 6th century) when the bishops of the large dioceses found it o the discusse must district called ar

tes or), each with an archpress (later entitled rural desa) aways subordinate to the archdeacon. At the present day, in the Roman Catholic Church, the powers and duties of rural deans vary considerably from country to country, and even from diocese to diocese, being restricted in some cases to presiding at the monthly conference of the clergy. In the Church of England the office feil into practical abeyance at the Reformation, but was revived about the middle of the 19th century; rural deans may act as deputies to the bishop and archdeacon, and are supposed in particular to see that the churches and parsonages within their district are in proper repair.

The title "dean of the sacred college" is borne by the oldest (in standing, not in age) of the cardinal-bishops, who takes the title of bishop of Ostia and Velletri. Perhaps the use of the word dean, as signifying the oldest member of any corporation or body of men may be derived from its application to dignitary. The cean of the sacred college is in the ecclesiastical hierarchy second to the pope alone. A compendious account of his privileges and special functions may be found in the work of G. Moroni, vol. xix. p. 168

There are four sorts of deans of whom the law of England takes notice (1) The dean and chapter are a council subordinate to the bishop, assistant to him in matters spiritual relating to religion and in matters temporal relating to the temporalities of the bishopric. The dean and chapter are a corporation, and the dean himself is a corporation sole. Deans are said to be either of the old or of the new foundation—the latter being those created and regulated after the dissolution of the monasteries by Henry VIII The deans of the old foundations before the Ecclesiastical Commissioners Act, 1841, were elected by the chapter on the king's congé d'élire, those of the new foundation (and, since the act, of the old foundation also) are appointed by the king's letters patent It was at one time held that a layman might be dean, but since 1662 priest's orders are a necessary qualification. By the act of 1841 the dean is required to be in residence eight months, and the canons three months, in every year The bishop is visitor of the dean and chapter (2) A dean of peculiars is the chief of certain peculiar churches or chaptes. He hath no chapter, yet is presentative, and hath cure of souls, he hath a peculiar, and is not subject to the visitation of the bishop of the diocese " The only instances of such deaneries are Battle (Sussex). Bocking (Essex) and Stamford (Rutland). The deans of Jersey and Guernsey have similar status. (3) The third dean 'hath no cure of souls, out bath a court and a peculiar, in which he holdeth plea and jurisdiction of all such ecclesiastical matters as come within his peculiar. Such is the dean of the arches, who is the judge of the court of the arches, the chief court and consistory of the archhishop of Canterbury, so called of Bow Church, where this court was ever wont to be held." (See Arches, Court of) The parish of Bow and twelve others were within the peculiar jurisdiction of the archbishop in spiritual causes and exempted out of the bishop of London's jurisdiction. They were in 1845 made part of the diocese of London. (4) Rural deans (see above) are clergymen whose duty is described as being "to execute the bishop's processes and to inspect the lives and manners of the clergy and people within their jurisdiction " (See Phillimore's Ecclesiastical Law)

The bishop of London is ex officio dean of the province of Canterbury, and in that capacity summons the bishops of the province to Convocation. In the colleges of the English universities one of the fellows usually holds the office of "dean," and is specially charged with the discipline, as distinguished from the teaching functions of the tutors. In some universities the head of a faculty is called "dean", and the president of the Scottish Faculty of Advocates is called the Dean of Faculty. In each of these cases the word is used in a non-ecclesiastical and purely titular sense.

DEAN, FOREST OF, a district in the west of Gloucestershire, England, between the Severn and the Wye It is oval in form, 20 m. long and 10 m wide, and still retains its frue forest character. The surface is undulating the elevation ranging from the surface is undulating the elevation ranging from a royal forest in the surface is undulating the elevation ranging from the surface is undulating the elevation ranging from a royal forest in the surface is undulated in the surface in the surface is undulated in the surface in the su

Wyntour for £10,000, and a tee farm rent of £2,000. The grant was cancelled by Cromwell, but at the Restoration only 30,000 trees were left and Wyntour having got another grant, destroyed most of these. In 1680 an Act was passed to enclose 11,000 acres and plant with oak and beech for supply of the dock-yards, and the present forest has six 'walks' covered with timber in various stages of growth.

The forest is locally governed by two Crown-appointed deputy gavellers to superintend the woods and mines. There still remain quaint mining and forest laws. The forest laws were administered at the Speech house, a 17th century building in the forest, where the verderers' court is still held. The district contains coal and from mines, and quarries of building stone, which fortunately hardly minimize its natural beauty. Near Coleford and Westbury pit workings of the Roman period have been discovered, and the Romans drew supplies of iron from this district. The scenery is especially fine in the high ground bordering the Wye (q v), opposite to Symond's Yat above Monmouth, and Tintern above Chepstow St. Briavel's castle, above Tintern, is a moated castle, of which the north-west front remains, standing in a magnificent position high above the Wye.

DEANE, RICHARD (1610-1653) British general-at-sea, major-general and regicide, was a younger son of Edward Deane of Temple Guiting or Guyting in Gloucestershire, where he was bapuzed July 8, 1610. In 1644 he held a command in the artillery under Essex in Cornwall and took part in the surrender after Lostwithel Essex (Letter to Sir Philip Stapleton, Rushworth Collection) calls him "an honest, judicious and stout man," an estimate of Deane borne out by Clarendon's bold and excellent officer" (book xiv cap 27), and he was one of the few officers concerned in the surrender who were retained at the remodelling of the army. Appointed comptroller of the ordnance, he commanded the artillery at Naseby and during Fairfax's campaign in the west of England in 1645. In May of that year Deane was appointed lieutenant of artillery to Cromwell in Ireland. Cromwell refused thus to be put out of the way, and Deane followed his example He commanded Cromwell's right wing at Preston (Aug 17-19 1648) and on the entry of the army into London accompanied him to the consultations as to the "settlement of the Kingdom" with Lenthall and Sir Thomas Widdrington, the keeper of the great seal. He was one of the commissioners for the trial of Charles I. and a member of the committee which examined the witnesses He signed the death warrant

In 1649 the office of lord high admiral was put into commission. The first commissioners were Edward Popham, Robert Blake and Deane, with the title of generals-at-sea. Deane's command at sea was interrupted in 1651, when as major-general he took part in the battle of Worcester, and then acted as president of the commission for the settlement of Scotland, with supreme command of the military and naval forces. In 1653 Deane was with Blake in command at the battle off Portland. At the outset of the battle off the North Foreland (June 1-3, 1653) Deane was killed. He was buried in Henry VII's chapel at Westminster Abbey, to be disinterred at the Restoration.

See J Bathurst Deane, The Life of Rickard Deane (1870)

DEANE, SILAS (1737-1789), American diplomat, was born in Groton, Conn., on Dec. 24, 1737. He graduated at Yale in 1758 and in 1761 was admitted to the bar From 1774 to 1776 he was a delegate from Connecticut to the continental congress Early in 1776 he was sent to France by Congress, as a secret agent to induce the French Government to lend its financial aid to the colonies Subsequently he became, with Benjamin Franklin and Arthur Lee, one of the regularly accredited commissioners to France from Congress On arriving in Paris, Deane secured the shipment of many vessel loads of arms and munitions of war to America He also enlisted the services of a number of Continental soldiers of fortune, among whom were Lafayette, Baron Johann De Kalb and Thomas Conway His carelessness in keeping acsount of his receipts and expenditures led, in 1777, to his recall to face tharges. Before returning to America, however, he signed on Feb 6, 1778 the treaties of amity and commerce and of alliance which he and the other commissioners had successfully

Int - join ħ 2 - Lunfices Was allewed to 机烧 ż communication area a serie his affairs. The publication of same intercection it tars in Rivington's Poyal Gazette in New Note that he was a Deare secured his belief that the struggle for missingers was hopeses and counselled a return to British ellegance coulest such animostly against him in America that for some years be remitted in England. He dred on shipboard to Hair room. England on Sep. 12 1753 sitter having em-"triked for America or a Boyus packet. No evidence of his vair my of his claims by vering for coo to his bens in 1842. He i senger of the grad tidings failed or erred with the his defent in An Address to the Free and Independent. See Sir J. G. Frazer, The Belief in Immortality, vol. 1. (1913), The states of the United States of North America (Harrford, Conn.) Golden Bugle (Perils of the Soul) withished his defense in An Address to the Free and Independent and Lendon 1784).

See The Correspondence of Side Deine published in the Connected Historical Society's Collections, vol. 1, and The Deum Papers in the New York Historical Society is Collections (1837-90). See also Winson's Norvaille and Chileal History vol via chap i Whatiou's Recollections of Deplomate Correspondence of the United States (1884), and G. L. Clark, Sila Deans, A Connecticut Leader in the American Recollections of the Connection of the Reconsider (19131.

DEARBORN, a city of Wayne county Michigan U.S.A. rom. W. of Detroit, on the Michigan Central refiroed. The population was 1470 in 1900 and was estimated locally at 10 000 in 1 1933 It is a residential suburb the Detroit terminus of the Ford hir service and the Lorne of Henry Ford, who was born on a farm rear the city. Ford restored the farm to its early appearance, and planned (1928) to build at Dearborn a museum village" of old building- collected from all parts of the United States and from England.

DEATH, the permanent cessation of the vital functions in the bodies of animals and plants the end of life or act of dying The word is the English representative of the substantive common to Tettoric languages, as "dead is of the adjective, and 'die" of the verb the ultimate origin is the pre-Teutonic verbal stem dan; of Ger. Tod, Dutch dood, Swed, and Dan dod.

For the scientific aspects of the processes involved in life and its cassition see Biology, Physiology, Pathology, and allied articles, and for the consideration of the prolongation of life (see Longevity. Here it is only necessary to deal with the more

primitive views of death and with certain legal aspects

Ethnology. To the savage. death from natural causes is mexplicable At all times and in all lands, if he reflects upon death at all, he fails to understand it as a natural phenomenon If a man dies without being wounded he is considered to be the victim of the sorcerers and the exil spirits with which they consort. Throughout Airica the death of anyone is ascribed to the magicians of some host-le tribe or to the malicious act of a neighbour A culprit is easily discovered either by an appeal to a local diviner or by torturing some one vouses into confession. In Australia Sixteenth century portrayal of whenever a native dies, no matter DEATH



how evident it may be that death has been the result of natural exuses, it is at once set down that the defunct was bewitched Even to-day the peasantry of many European countries believe that all disease is the work of demons. Sleep and trance are regarded as the temporary, death as the permanent, absence of the soul regarded as the vital principle, as the moral principle and as the intellectual principle. It may be diffused all through the body but can be conrestrict to the man for it are wrong). It inheres in each e ongren er entre interes i bije i.

The loads that were reformed to the soul, and subject to a certainste or order has been issued. The

er s The lost is juctured as a man's preath (anima). ಌ೩ ಕರ and the word 'preath' has become a synonym for afe aself The phrase inst breath expresses the savage belief that there departs from the dying in the final expiration a something tangible canable of separate existence—the soul Myths account for its origin Sovetimes it is a 'tabu" which has been broken and gives Death power over man In India Yama, the god of Death the first man, married his sister and thereby violated the funda mental law of exogamy, breach of which to this day in many cases suit entails actual as well as civil death. In other myths controlly was ever discovered and Controls recognized the men were destined by Divino Mercy to be immortal but the mes-

REGISTRATION

Legal Requirements.—The registration of burials in England goes back to the time of Thomas Cromwell, who in 1538 instituted the keeping of parish registers. Statutory measures were taken from time to time to ensure the preservation of registers of burnals, but it was not until 1836 (the Births and Deaths Registration Act) that the registration of deaths became a national concern The law for England was consolidated by the Births and Deaths Registration Acts 1874 and 1926 Under the former act the registration of every death and the cause of the death is compulsory When a person dies in a house information of the death and the particulars required to be registered must be given within five days of the death to the registrar to the best of the person's knowledge and belief by one of the following persons —(c) The nearest relative of the deceased present at the death, or in attendance during the last illness of the deceased. If they fail, then (2) some other relative of the deceased in the same sub-district (registrar's) as the deceased In default of relatives (3) some person present at the death, or the occupier of the house in which, to his knowledge, the death took place. If all the above fail, (4) some inmate of the house, or the person causing the body of the deceased to be buried. The person giving the information must sign the register Similarly also, information must be given concerning death where the deceased dies not in a house

Where written notice of the death, accompanied by a medical certificate of the cause of death, is sent to the registrar, information must nevertheless be given and the register signed within 14 days after the death by the person giving the notice or some other person as required by the act. Failure to give information of death, or to comply with the registrar's requisitions, entails a penalty not exceeding 40 shillings, and making false answers to any question put by the registrar relating to the particulars required to be registered, or making false statements with intent to have the same inserted in the register, is pumishable either summarily with a penalty of £10, or, on indiciment, with penal servitude for seven years, or with imprisonment for two years with or without hard labour

The registrar, upon registering the death, must forthwith give to the person giving the information a certificate under his hand that he has registered the death, but where he has received written notice of the death, accompanied by a medical certificate of the cause of death he may, before registering the death and subject to such conditions as may be prescribed, give to the person sending the notice, if required to do so, a certificate under his hand that he has received notice of the death

The body of the deceased cannot be disposed of before the certificate of the registrar, or order of the coroner, has been deliveted to the person effecting the disposal, ie, the person by whom the register of burials in which the disposal is to be registered is kept, or, in the case of a burial in a churchyard or graveyard of a parish or ecclesiastical district under the Burial Laws Amendment Act 1880, the relative friend, or legal representative who is responsible for the burial of the deceased. Where, however, the disposal is by burnal, the person effecting the disposal may proceed with the burial if satisfied by a written declara tion in form by the procuring the disposal that a effecting the dis

DEATH 109

posal mus whin 96 hours of the dispo al not v the reg s er n the prescribed manner as to the da e place and means o disposal The registrar on the expiration of the prescribed period after the Late of a certificate by him or of a corener's order, if no notification as aforesaid has been previously received by him, must make inquiry of the person to whom the certificate or order was given, and such person must give information to the best of his knowledge and belief as to the person having the custody of the certificate or order the place where the body is lying, or, if disposed of. the person effecting the disposal

It is the duty of the father or mother of a still-born child to give information to the registrar of the particulars required to be registered concerning the still-birth Upon doing so, he or she must either (1) deliver to the registrar a written certificate that the child was not born alive, signed by a registered medical practuioner or certified midwife who was in attendance at the birth or who has examined the body or (2) make a declaration in prescribed form to the effect that no such practitioner or midwife was present at the birth, or has examined the body or that his or her certificate cannot be obtained and that the child was not born

The registration of deaths at sea is regulated by the Births and Deaths Registration Act 1874 together with the Merchant Shipping Act 1894.

Death can be proved by the production of a certified copy of the entry in the register of birth and deaths, which is evidence not only of the fact of death, but also of the date of death, the sex, rank or profession of the dead person, and the cause of death

Presumption of Death.—The fact of death may, in English law, be proved not only by direct but by presumptive evidence When a person disappears and is not heard of for seven years, the presumption of law arises that he is dead (Nepean v. Doe, 1837, 2 M and W. 894). In Scotland by the Presumption of Life (Scotland) Act 1891, the presumption is statutory. In those cases where people disappear under circumstances which create a strong probability of death, the court may, for the purpose of probace or administration, presume the death before the lapse of seven years (see In the Goods of Matthews, 1898, p 17). The question of survivorship, where several persons are shown to have perished by the same calamify, has been much discussed. It was at one time thought that there might be a presumption of survivorship in favour of the stronger party. But it is now clear that there is no such presumption, the question is one of fact depending wholly on evidence, and, if the evidence does not establish the survivorship of any one, all must be taken to have died at the same moment (Wing v. Angrave, 1800, 8 H. L. Cas 183) This rule has been applied by the court of probate where husband and wife were both killed in a railway accident, and the bodies were found two bours afterwards, and administration was granted to their respective next of kin (In the Goods of Wheeler, 1861, 31 L J. P M & A, 40), so also where husband and wife were proved to have been on board a ship which was supposed to have been lost at sea (In the Goods of Alston, 1892, p 142)

Civil Death is an expression used in law in contradistinction to natural death. Formerly, a man was said to be dead in law (1) when he entered a monastery and became professed in religion, (2) when he abjured the realm; (3) when he was attainted of treason or felony. Since the suppression of the monastenes there has been no legal establishment for professed persons in England, and the first distinction has therefore disappeared, though for long after the original reason had ceased to make it necessary grants of life estates were usually made for the terms of a man's natural life The act abolishing sanctuaries (1623) did away with civil death by abjuration; and the Forfeiture Act 1870, that on attainder for treason or felony.

For the statistics of the death-rate of Great Britain as compared with that of the various European countries see Great Britain. See also Annuity, Capital Punishment, Cremation; Insurance, ARTICLES ON; MEDICAL JURISPRUDENCE, etc.

THE UNITED STATES

Legal Registration.—It is generally provided that the State

dea hs shall poide the necessary forms and blanks for obtauring and preserving such records, and shall procure the faithful registration of each death. For this purpose the States are as a general rule divided into registration districts, sometimes called vital statistics registration districts, in each of which there is a registrar charged with the registration of births and deaths. In Massachusetts and in some other Stares this duty is imposed upon each town clerk

It is provided by statute in most States that the body of any person whose death occurs in the State shall not be huried cremated, deposited in a vault or otherwise disposed of or removed from or into any registration district, or be temporarily held pending further disposition, more than 72 hours after death unless a permit for burial removal or other disposition shall have been properly issued by the registrar of the district. Whenever it is practicable, no such burial or removal permit shall be issued by any registrar until a complete and satisfactory certificate of death has been filed with him. If, however, a dead body is transported from one State into a district in another State, the transit or removal permit issued in accordance with the law of the place of death has the force of a burnal permit. It is frequently required that the certificate of death shall be of the standard form recommended by the United States Bureau of the Census and adopted by the American Public Health Association and shall contain —(1) the place of death, including the State, county. rownship, village or city, (2) the full name of the decedent. If an unnamed child, the surname preceded by "unnamed", (3) sex and colour or race—as white, black, mulatto, Indian, Chinese, Japanese, etc; (4) conjugal condition whether single, married, widowed or divorced; (5) place and date of hirth, including year, month and day; (6) age in years, months and days; (7) name of father and maiden name of mother; (8) birth-place of mother; (9) occupation; (10) signature and address of informant, (11) date of death year, month and day; (12) statement of medical attendance on decedent, fact and time of death, including time last seen alive. (13) cause of death. (14) signature and address of physician or official making medical certificate, (15) place and date of burial or removal; (16) signature and address of undertaker, (17) official signature of registration with date when certificate was filed and registered number.

The personal statistical particulars should be authenticated by the signature of the informant, who should be the nearest of kin or other competent person acquainted with the facts. The statement of the facts relating to the disposition of the body shall be signed by the undertaker. The medical certificate shall be made and signed by the legally qualified physician if any, last in attendance on the deceased. The cause of the death must generally be stated so as to show the disease or sequence of causes resulting in the death.

In regard to the registration of still-born chudren, in some jurisdictions the law provides that the child shall be registered as a birth and also as a death, and separate certificates of birth and death shall be filed with the registrar; in others, the stillborn child is merely registered as a death. A certificate is not required for a child that has not advanced to the fifth month of inter-gestation

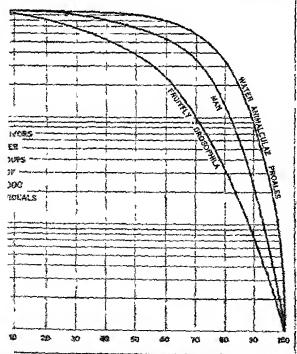
If a death occur without medical attendance, it is the duty either of the undertaker or other person who learns of the death to notify the local health officer. The latter immediately investigates and certifies the cause of death. If however, he has reason to believe that the death may have been due to unlawful act or neglect, be refers the case to the coroner for his investigation and certification. The undertaker must file the certificate of death with the local registrar, and obtain a burnal or removal permit prior to any disposition of the body, which he dehvers to the person in charge of the place of burial.

Presumption of Death.—The fact of death may as a general rule, be proved by presumptive evidence. An unexplained absence of seven years at common law raised a presumption of death. This is still the period in most jurisdictions in this country, though a few have by statute adopted a shorter period, e.g., five years in department of health shall have charge of the registration of Arkansas, and five years in Indiana for the sole purpose of

 $\mathbf{\Omega}$ Ł na her a reat -- J 486 each with a land of the their sever years. The

act of deals cay and not of the time of ceath. There rea at the espirator of the sever-year period.

wship.—In the absence of ancommercial evidence, in fig chammon disaster meta is as a general rule no pre-- no sur morstip. In some States business there are a bing common presump was as to survivorship. Otheran will treat the case as the to be established by evithe burden to placed on him who claims survivorating H, BIOLOGICAL ASPECTS OF. The life cycle ! al multicalistar arganisms standing relatively high in I organic specialization as for enample a fly, a bird or specially distrible into five biologically differentiated and stinct phases as tollows 10) The formation of the ion is the individual, by the union of ovum and sperin the process called fertilization. The life-history of uel, as a distinct and blorogical entity begins with this ; The period of development and growth which has soses commonly designated respectively as embryome and post-embryonic or post-astal. The duration of h phase of the life-cycle varies widely in different as from 8 to 10 days in the fruit fly. Drosophila, to to years in man. This phase comes normally to an st forms of higher animal nie, and is succeeded by ase of adult stability in which no marked changes are either in the direction of growth or degeneration. This e 'prime of Lie' in common parlance. Its duration in in wilely variable. Sooner or later the individual can



empiral mates for war, a fruit fly (drosoffila) and MALCULA (PROBLES) AT CORRESPONDING AGES figures are the biologically equivalent life space represented as helidad juste 160 units

d to blive based definite or into the next whose of the which this ream know it is a party of rescence. with the lead of the appropriation of the major and the proper in the a restrict on the control of the duration has properly of the rate of the control of the party, but the all to room but the life of the life the life the colorer read to the countried the

The Cycle of Late In an cycle of and adda, hie as our ned. at most significant phases biologically are obviously (3) growth and (d) senescence Phases (a) and (e) (fertilization is process to the United States that the presumption ; and death) are the terminal events of the important periods (L) and (a) Phase c) is transitional between (b) and (d), and may cases, name or in which distribus been presumed to the minolly absent as when obvious senescent changes follow immediately upon the cessation of obvious growth. Indeed it is doubtful it phase (c) has theoretically any place in the life-cycle at all. Perhaps in cases where a stable adult plateau in the middle of the cycle seems to exist it merely means that the changes of growth or of senescence are proceeding at too slow a rate to be ch-ernable by the relatively crude methods available

Senescence and Death.—The special problem of the biology of death is the analysis and elucidation of phases (d) and (e) or the life-cycle, senescence and death. As a result of investigations in this special field of general biology certain broad generalizations are now possible. The more important of these will now be ciscussed

Time Duration.—The time duration of the entire individual ble-cycle varies enormously, both between different forms of hie, species general families, etc. and also between different individuals belonging to the same species. Thus the maximum duration of life of the rotifer. Procles decipiens, is eight days (Noyes) At the other extreme there are other authentic records of marvioual repules living to as much as 175 years, and of individual birds and mammals living to well over 100 years

Zoological Groups.—The differences between distinct groups of animals (species, genera, families, etc.) in respect to the length of the life-span stand in no generally valid, orderly relationship to any other broad fact now known in their structure or lifehistory In spite of many attempts to establish such relationships every one so far suggested has been upset by well-known facts of natural history. Thus it has been contended that the duration of an animal's life is correlated with its size, in the sense that the larger the animal the longer its life. But plainly this has no general validity. Men and parrots are smaller than horses, but have life-spans of much greater length.

Individual Differences.—The differences between individuals of the same species in the duration of their lives are distributed in a lawful and orderly manner in marked contrast to the apparently haphazard character of the inter-group variation in length of life-span just discussed. The individual variation in the duration of life is capable of exact mathematical description and, indeed, its treatment constitutes a special branch of mathematics. known as actuarial science. It has been shown by R. Pearl and his students that if the life of different animals, such as the rotifer, Prodles, the fly, Drosophda, various other insects and man, be measured nor in absolute time-units of years or days, but in terms of a relative unit, namely a hundredth part of the biologically equivalent portions of the life-span in the several cases, then the distribution of individual variation in duration of life or the distribution of mortality in respect to age, or, in short, the lifecurve, is quantitatively similar in these widely different forms of life almost to the point of identity. This is illustrated in fig. 1.

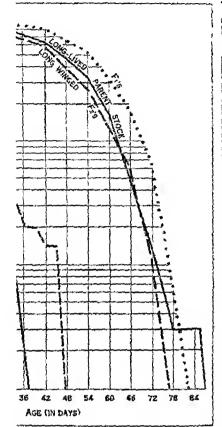
These facts suggest that the observed differences between individuals in duration of life are primarily the result of inborn differences in their biological constitutions (their structural and functional organizations) and only secondarily to a much smaller degree the result of the environmental circumstances in which their lives are passed.

Inheritance.-This inference is supported by the further fact that the differences between individuals which find expression in varying degrees of longevity, or duration of lafe, are definitely inherited. This has been demonstrated statistically for man by Karl Pearson, Alexander Graham Bell, R. Pearl and others It has been proved experimentally by cross-breeding long-lived and shortlived strains of the fruit fly Drosophila melonogaster (Hyde, Pearl and his students, Parker and González). The results of such an experiment are shown in fig. 2.

In the first generation (F:) from such a cross the progeny exhibit a life-curve essentially like that of the long-lived parent stock, but with a slightly greater average duration. If now these

DEATH III

afe-curve like the original long-lived (short-winged) resembles in duration at population of wild Drosophila in-



VITY IS INHERITED AMONG FRUIT FLIES ED WITH A SHORT-LIVED STOCK dotted line, F₁'s) is longer lived than either produces progeny of two kinds (F_n's), a d and a long-winged, which is long-lived are thus seen to hold, in the case of these shown to behave like a definitely inheritable

and permanent innate differences in :lusion that individual differences in ally an expression of hereditary difis firmly established

ty.—Neither senescence nor natural ble consequence or attribute of life a relatively new thing, which made ring organisms had advanced a long The evidence supporting this conr be considered under several heads. anisms (Protozoa, qv) prove, under ation to be, in a certain sense, im-simple fission of the body, one ineaving behind in the process nothing The brilliant work of Woodruff and s demonstrated that this process may ny permanent slacking of the rate of o senescence, and without the interprocess such as conjugation or enimment of the cells is kept favourable. qually differentiated organisms are, in educed to a formula we may say that erm cells) produces a soma and more tually dies. Some of the germ cells somata and germ cells, and so on in is never yet ended since the appearns on the earth. (r) In some of the

ser mier se there are produced in the 'most lowly-organized groups of many-celled animals or Merazoa, (F₂) two kinds of individuals, one of the power of multiplication by simple fission, or budding off of a portion of the body which reproduces the whole, is retained This asexual, or agamic, mode of reproduction occurs as the usual d parent stock. In addition to these, but not exclusive method in the three lowest groups of multi-I lines it has been shown that there i cellular animals, the sponges, fletworms and coelenterates. More rarely it may occur in other of the lower invertebrates

So long as reproduction goes on in this way in these multicellular forms there is no place for death. In the bassage from one generation to the next no residue is left behind. Agamic reproduction and its associated absence of death also occur commony in plants. Budding and propagation by cuttings are the usual forms. in which it is seen. The somatic cells have the capacity of contimping multiplication and hie for an indefinite duration of time, so long as they are not accidentally caught in the breakdown and death of the whole individual in which they are at the moment located (d) There is some evidence that in cercain fish there is no occurrence of senility or natural death, but that instead the animal keeps on growing indefinitely, and would be immortal except for accidental death. The animal soma in such cases behaves like the root stock of a perennial plant (For further discussion of this line of evidence see interesting correspondence by Geo P Bidder in Nature, vol cxv, 1925, passim and M. A. C. Hinton's monograph of the Voles and Lemmings (British Museum 1926), in which it is concluded that voles of the genus Arvicolo "are animals that never stop growing and never grow old."

(e) The successful cultivation in vitro of the tissues of higher vertebrates, even including man himself, over an indefinitely long period of time, demonstrates that senescence and natural death are in no sense necessary concomitants of cellular life. Carrel and Ebeling by transferring the culture at frequent intervals into fresh nutrient medium, have kept alive and in perfectly normal and healthy condition a culture of tissue (see Tissue Cut-TURE) from the heart of a chick embryo for more than 15 years 1,e, for much longer than the normal bie-span of the fowl There is every reason to suppose that, by the continuation of the same technique, the culture can be kept alive indefinitely. The experimental culture of cells and tissues in vitro has now covered practically all of the essential tissue elements of the metazoan budy. even including some of the most highly differentiated of those tissues. Nerve cells, muscle cells, heart muscle cells, spleen cells, connective tissue cells, epithelial cells from various locations in the body, kidney cells and others have all been successfully cultivated in zitro.

Potential Immortality.-It may fairly be said that the potential immortality of all essential cellular elements of the body either has been fully demonstrated, or has been carried far enough to make the probability very great, that properly conducted experiments would demonstrate the continuance of the life of these cells in culture to any indefinite extent. It is not to be expected, of course that such tissues as hair or nails would be capable of independent life, but these are essentially unimportant tissues in the animal economy, as compared with those of the heart, the nervous system, the kidneys, etc. Generalizing from results of tissue culture work of the last two decades, it is highly probable that all the essential tissues of the metazoan body are potentially immortal, when placed separately under such conditions as to supply appropriate food in the right amount, and to remove promptly the deleterious products of metabolism

Death Among Multicellular Animals.—A fundamental reason why the higher multicellular animals do not live forever appears to be that in the differentiation and specialization of function of cells and tissues in the body as a whole, any individual part does not find the conditions necessary for its continued existence. In the body any part is dependent for the necessities of its existence, as for example nutritive material, upon other parts, or put in another way, upon the organization of the body as a whole. It is the differentiation and specialization of function of the mutually dependent aggregate of cells and tissues which constitute the metazoan body that brings about death, and not any inherent or cells t inevitable mortal -in the

When tells show theractenstic

changes it is perhaps

m roma ints € € er -e e 35 c 1 cm Łe. 3 6 1.7 tic s success sometime in the control of present drawn the it seems believely to regard sempleance in part at je v. . s a Lipentinanoù et tue moj, tiegorat gogè as a apoje tesuche from the fact that it is a differentiated and integrated mindiologic and distance organization. This appropriate is redivisa marganizations in the component ceds. But it apparency eves not printered originate in any portionar cell because of the factors, the rate sold in time or receive that cell in and of uself has from a ver nor goes it occur in the cells when they are remessed from the mutually dependent relationship of the organized hwe is a who's and green appropriate physico-chemical conditions In short, sene-rance appears, in the present state of knowledge not to be a primary or nacessary artribute to the physiological economy or individual collection, but rather of the body as a 我是(1)世

Times of Death.-Toe different organ-systems of the body have therecteristic times of oreaking down and leading to death These differences probably represent in considerable part different make degrees of organic fitness of the different fissues and organs, and also in part the degree of exposure of the different organ systems to environmental stresses and strains. The following table cased upon mortality returns of the United States Registabulated are (a) the mean or average age at death, and (b) the chave it is

Fraths due to marily to organ breakdown o	The (Se	e at death o	Median age at death (Jears)					
faulte of		hemole.	Male.	Female				
'r Alimentary tract and as cisted organi		}						
digestion a Respiratory	1	1	4 ¢8≈ o	1				
system 3. Skeletal and		!		28 24= 08				
muscularsyst 4 Endocunal 2	3 E	<i>'</i>		51 35-96 = 41				
tem 3. Skin	20 71 ⇒ 3.1	44 25 = 36	45 45 ≠ 1 0; 53·47 ≠ 43	43 42 = ·46 48 ¢6 = 58				
6 Sexual system - Nervous sys-	r. 47 37 = 32	1 42,47 = 0%	57 90≠ 4¢	10 88 = II				
tem 3 Circulatory s	ys- :	! ;	5464= 10	1				
tem and blod y Excretory s	}s-	, 27.52 = -03,	60 of the oc	02 14 = 00				
tem (adnevs and associa	ted	j						
organsi	157-C4 = 07	54-34 = 09	61-37 = 0	57 50 ± -11				

There are thus wide differences in the time of breakdown of the different organ-systems, as reflected in mortality. The alimentary tract, on the average, "wears" rather less than half as long as the excretory system. The two organ systems which stand at the head of the list as leading earliest to death by their breakdown are the two (abmentary tract and respiratory system) which are to direct corract with external environmental agents (food and air) throughout life. The two which stand at the bottom of the hat (the curculatory and excretory systems) practically never come into direct contact with the external environment

Rejuveration. In terest years numerous attempts have been i made to achieve "rejuvenation" (q.v.) of the aging body and to lengthen the span of life by various surgical alterations of certain emberical organs, particularly the essential organs of sex Neverthereis, whatever may be the immediate physical and psychological effects of such procedures, there is as yet no convincing evidence that they after the expectation of life of the individual.

Somescence.—Many theories of sense conce have been advanced,

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ene I e o hed by he denc Moto hem sitter from he gion desert or securg up some particular observed attribute or element of the phenomenon of senescence uself such as proteplasmic bysteresis, slowing rate of metabolism (meaning es sertially only reduced activity; etc, as the cause of the whole More experimental work on the problem is essential, in particular in the direction of producing at will, and under control the objective abenomenon of sendity irrespective of the age of the organism and conversely preventing the appearance of these prenomena in cli animals

BELLEUCRAPHY.—The literature on the subjects treated in this article is widely scattered in biological, medical and statistical journals and separate treatises. The tollowing books summarize the field, and will serve to introduce the reader to the detailed literature C M Child Senescence and Reinverescence (1918), E. Korscheit, Lebensdauer, Alter and Tod (1922): R. Pearl, The Biology of Death (1921), T. Bradstord Robertson, The Chemical Basis of Growth and Senescence (1023), R. Pratl. Studies in Human Biology (1924); The Rate of Living (1918)

DEATH-RATE. This rate is usually expressed in terms of the number of deaths occurring annually in each 1 000 of the population under review. Thus if, in a given year the deaths in a population of one mallion numbered 14,700, the death rate for

that year would be 14; Crude Death-rate.—The rate thus obtained is known as the crude death-rate, and is a positive measure of the forces of tration Area in 1920 illustrates these differences. The figures | mortality which are actually operative at the time in the particufor population to which it relates. The incidence of murtality is median age at death that is, the age so thosen that the same | not however, equally distributed over the whole span of human number of decths occur below this age as the number occurring life. It is highest at the two extremes in infancy and in old age, and further, in many countries the mortality of males is greater than that of females It will be seen, therefore, that a population having an excessive number of the very young or of the very old would naturally have a higher crude death-rate than one more favourably constituted as to age. The crude death-rate is, therefore, not a sound basis for comparing the relative mortality of a given area with that of other areas, or even with its own if, in the course of time, changes in its age constitution have come about

Standardized Death-rate.—To enable such comparisons to be made, what are termed standardized death-rates are largely used. These are obtained by working out what the death-rate would have been if the population under review had been constituted as to age and sex on some fixed proportions. Thus in England and Wales the standard population used for this purpose is that which was actually recorded at the Census of 1001 The standardized death-rate thus obtained gives us a better standard for comparison than does the crude death-rate. It is, however not free from objection, for the rate will vary according to the constitution of the standard population used, as with the ratios between any two standardized death-rates. For the comparison of death-rates the one and only safe method to employ is to use the rates for the different age and sex groups

Incidence.—The incidence of mortality is affected in varying degrees by age, sex, climatic conditions, race and occupation. It is exceptionally high at the beginning of life, the mortality among newly-born infants in England and Wales being almost as heavy in the first four weeks as in the following is months. The following were the death-rates for persons in England and Wales at various age-groups in 1916 -

Under 5	5~10 34	10-15 1 5	15~20 2*4	20-25	25~35
35~45 <i>\$*</i> 3	45 ⁻ 35 9 5	55-65 20 3	65-75 49-7	75~ ⁸ 5 117 7	3 5 over 85 263 1

From this it will be seen that, while at the ages 10 to 15 only 15 out of every 10,000 died in 1926, the deaths among 10,000 aged 85 and upwards were 2,634 In most countries the male death-rate exceeds that of females The latter survive the initial shock of bath better and are endowed with a more persistent vitality. Moreover, the fact that the dangerous occupations are pursued mainly by men, tends to increase the mortality of the latter. In 1926 the death-rates for males in England and Wales were higher than those for females at every age group except that No sale of them can be regarded as entirely satisfactory, or as from 10 to 15 years at which the rates were equal. In the first

DEATH-RATE

n and n ale	otlaro	¤тап е	Germ n	I a	Ve her lands	\6 a	Sweden	Switzer land	Australia	Z
00	09	2_ 6	26 3	28 8	-3·5	15 o	10.6	34'3	176	
100	179	20 I	30.7	22 5	17·2	14 g	16.1	18 0	122	
138	155	17.7	15 0	15-7	12·4	13 2	13.6	14 3	108	
116	130	17.5	11 9*	16 8*	9·8	10 6	11.8	11'7	94	

*(1925)

tale; then up to the age of 35 the difference was ! rked; from 35 to 45 it was about 33%, falling slightover 75 Other countries show similar results, as the death rates will illustrate

Germany	Japan	Netherlands	vsA
1932	0101	1925	1024
124	2) O	G-Q	127
115	226	06	111

t is dealt with more fully below

's are higher in tropical or semi-tropical countries situate in the more temperate zones. Thus in 1926 rom 8-7 in New Zealand, 94 in Australia, 9-8 in the 106 in Norway, 116 in England and Wales to 306 5.0 m Egypt (1925) 21.5 in Jamaica and 21.2 in influence of climatic conditions may be seen within of a single country. For example, in England and ath rates by quarters during the decennium 1011-20

Quarter ended March 31 172
..., June 30 136
..., Sept 30 118
..., Dec 31 150

e for the first quarter being nearly 50% above that ! This seasonal incidence varies, of course, from untry In Egypt and Brazil, for example, the death for the first quarter of the year and highest in the ths Taking the geographical divisions of the same e finds that in 1926 the death-rate in the northern ingland and Wales was 123, in the southern 116, in ad in the midlands II I, in the governate of Cairo in 37 2, in the district of El Behira in Lower Egypt it Rio de Janeiro in 1921 it was 196, in Recife 319 rate is generally higher among non-European than sean races, as will be seen from the rates already this holds good where the races are hving under tic conditions Thus in the United States while the i-rate in 1924 was 11 8, for the negro population it t for Indians 259.

s for occupational mortality must be accepted with f reserve, owing to transference from one occupation nd to the differing proportions at ages in them; but s in incidence are very marked. Taking the deathall males in England and Wales, aged 15-65, whether 10t, in the years 1920-22 as 100, that for clergymen h of England was 56-1; for agricultural labourers il Service officials and clerks 74; for other clerks 102; I miners (hewers and getters) it was 93 8 and for tin niners 327

variation between urban and rural mortality, but this nt, the advantage being with the countryman in one

mder 5 years) the male mortality was 24% higher | Waies in 1926 the death-rate for the County Boroughs v for the Rural Districts 11 3; but for Wales alone it was the County Boroughs and 12-1 in the Rural Districts Netherlands the death-rate decreases with urbanization, while in towns, etc., with less than 5 000 inhabitants th rate in 1924 was 10-96 in those of from 5 to 20,000 it w from 20 to 100,000 only 9 12; while in those with over it fell to 8-79. In Sweden the urban death-rate in 1926 w the rural 12-12. In Denmark on the other hand while th rate in Copenhagen in 1925 was 116 that for the rural a 8.0 In Japan the rural is well above the urban rate

> Decline of the Death-rate.—One of the most strik tures in the vital history of the European peoples has great decline in the death-rate, particularly during the century. From such reliable statistics as are available, th recorded death-rates were those at the beginning of century, but they are too sparse for purposes of con However, an inquiry confined to the last 50 years will show what progress has been made. The table above death-rates in a number of countries for the years 18 1913 and 1926

> Each one exhibits the same phenomenon in greater degree. For the United States the nearest comparable for the years 1880 (198), 1900 (17.6), 1910 (15.0) a (11.8). During the last half century therefore the fall actual death-rate in these countries has been.

Germany	14. 4	England & Wa	les 93	Norwsy
Netherlands	13.7	Austraka	82	France
Switzerland	12.5	Scotland	79	New Zeala
Italy	120	Sweden	78	

It is obvious that a country like New Zealand with rate of only 118 at the beginning of the period under could not show so great a fall as the other countries. centage decline in the rate shows the following figures

Netherlands	58 3%	England &		Sweden
Germany	54800	Wales	44 4 %	Scotland
Switzerland	51870	Italy	41 7%	New Zeala
Australia	46 9%	Norway	41 0%	France

In the United States during 44 years the rate fell 8-o lent to a decline of 40 4%.

In three of the 12 countries here dealt with, the d has fallen by over 50%, in five by over 40%, in two by o and in the remaining two by over 20%. In each of ther Switzerland, Italy, Australia, and New Zealand, the dec ing this century has been more marked than in the last of the previous one There has been a remarkable levell of the death-rate. In 1876 it ranged from 11-8 in New to 28-8 in Italy, a difference of 170, while in 1926 the r from 8-7 in New Zealand to 175 in France, a difference 88 This notable decline, although not confined to Euro with the townsman in another. In England and not appear to be universal. In Japan the death-rate in

					Males.					
Under 5	5-10	10-15	12so	25~25	25-35	35~45	45-55	55-65	65-75	75~85
68 I 59.0 23.3	6 4 4 C 2'5	3-6 2-3 1-5	5 4 3 3 2 5	7°4 4 7 3°1	9 3 6-2 3-7	14 0 10 6 6 1	10·4 18·0 11 1	34 4 33 5 23 3	66 3 67 8 56-8	143 I 139 8 132 7

				7	emales						
Under 5	5-10	10-15	15-20	20-25	25-35	35-45	45~55	55-65	55−75	75-85	(5
57.0 49.5 28.8	6.0 4.1 2.3	3 7 2 4 1 5	53 3'2 24	6-8 3-8 2 9	83 53 33	11 7 8-7 4-6	15·2 13·8 8·2	28-3 26 5 17 4	58·4 56·5 43 ·9	127·4 122·6 108·0	

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	متحواف والمتحادث المرمية	و جنوب سیانیان بینواری سیرون		11-2				45-75	5, -hs	∪5 ⁻ 75	75-S5	Over \hat{s}_{σ}
total			73* * 	35 !	2 = 2	372	24 3 27 J	'+ 3 23 2	2 0 29 5	2 2* }	2 3 5 0	3 3 1 3*
, 1.12 Titil	,, , , , , , , , , , , , , , , , , , ,	*:	274 	5- 1		.63		72 g	32.2	143	7.3	1.5
The state of the s		المستحديق ومتاهده		F. WY	ישנדנג"	inge fect a	. on isty					
T 51		41.71 Nr 3	w5 \		-4 = -3 3	36 x	2~ h 3~ 2	9 -	12 2 12 2	3 3	33 173	0 I 5 5**
Takai		- Fr	-114	517	=7.4	, o .	(14	_4 c	1 315	24.9	15-3	65

4Rates migner man in 1902

note in 1924 21-2 in James of it for it was 30-2, in 1925 2-3, in Chile for the quinquention, 1901-05 it was 30-2, for 1910-20 it was 30-2. For it of the other hand for the period 1872-70 Rio de Janeiro had a desin-rate of 42-7, while for 1917-21 it had fallen to 12-2.

Some the of what these reductions in the death-rates mean may be gathered from the fact that, while the total death, in a lingle of the condition while the total death, in a lingle of the condition while the total death, in the lingle of the condition of the co

The Jealine has not been equally spread over the whole of life, nor has a been identical in the two sexes. The respective rates for males and females at age groups in England and Wales for the years 15-6, 1901 and 1926 were as in table on p. 113

The significance of these figures may be more easily apprehended to taking the 1876 rates and showing the percentage decrease in the two following quarter centuries. (See table above) from bese tables beyond 'ery interesting points emerge. In

From base tables several ery interesting points energe in the first place, though the greatest gain has been in the first age-group it is over 50% for both seves in every age group up to 55-45, and is quite considerable up to 55-45. It is rather greater for femrles than for males in every age-group except from 20 to 35, and is considerably greater at ages beyond 65. At ages 5 to 35 the gain was greater in the first period of 25 years, at ages 0-5 and 35 to 35 it was greater in the second period. In the first age group the gain in the later period was nearly four times as great, and was almost equally marked at the age-groups 45 to 75

How much surther this arrest of mortality can be carried is a marter of conjecture but it is clear that the existing rates from 5 to 35 years leave little margin for diminution (S de J)

DEATH VALLEY, a depressed basin in Inyo county Calif The name commemorates the fate of a party of "forty-niners" who perished here, by thirst or by starvation and exposure. The ex-Leedingly and Death Valley region lies immediately north of the Mujave desert and then stretches east from the Sierra Nevada mountains, covering a large part of Inyo county and extending into Nevada The valley proper, which is some 50 m. long and on an average 30 to 25 m, broad from the crests of the enclosing mountain ranges, is below sea-level (276 ft). This is the lowest point on the continent and in a direct line it is less than 80 m E. of Mt. Wheney, 14 302 ft. high. the highest peak in the United States. The mountains about it are high and bare, and brilliant with varied colours. The Amargosa river, entering the valley through a deep campon at the south disappears in the basic, leaving the surface crusted with white sales. The fact that this limited region is the and of concentration for a very extensive drainage system is thought to explain the extent and supposed depth of the decosits of soft, borax and nitrate of soda found in the basin. Death Valley is one of the hottest regions in the world. The minimum thely temperature in summer is revely below 70° F (in the shade), the martinum may, for days in succession, be as high as 120°, and the U.S. Weather Bureau has reconded an extreme of 134°.

W C. Menderhall. Some Descri Watering Places in South-easton Continued and South worker Newsday? U.S. Geological Survey,

origin 'See Tellfath', Both among critized and uncivilized peoples there is a wide-pread benef that the apparation of a living person is an omen of death, but until the Society of Psychical Research undertook the statistical examination of the question, there were no data for estimating the value of the belief (See Hallucination)

DEATH-WATCH, a popular name given to insects of two distinct families which burrow and live in old furniture, and produce a mysterious tacking sound vulgarly supposed to foretell the ceath of an inmate of the house. The name is often applied to two small beetles Xestoburn rajorillosum and Anobusm punctatum (fam. Anobiidae) but beings more properly to the former insect. The sound is a sexual call, and is produced by the beetle striking the front of the head upon the surface upon which it is standing. Certain book-lice (order Psocoptera) are sometimes known as lesser 'death-watches,' but the ability of such minute soft insects to produce audible sound is doubtful. The names Atropas pulsatoria and Tractes divinatorius, given to two of the common species, bear vatness to the superstition regarding the fateful significance of the sound.

DE BARY, HEINRICH ANTON (1831-1888), German hotanist, was born on Jan 26, 1831, at Frankfurt-on-Main. He studied medicine at Heidelberg, Marburg and Berlin, and in 1853 settled at Frankfurt as a surgeon. In 1854 he became privat-docent for botany in Tubingen and professor at Freiburg in 1855, migrating to Halie in 1867, and in 1872 to Strasbourg, where he was the first rector of the University, and where he died on Jan. 19, 1888

De Bary will be remembered as the founder of modern mycology, a science which he revolutionized by his celebrated Morphologie und Physiologie d. Pilze, etc., of 1806. His appreciation of the real significance of symbiosis and the dual nature of lichens is one of his most striking achievements. It is as an investigator of the then mysterious Fungi, however, that de Bary stands our. He not only laid have the complex facts of the life-history of many forms; e.g., the Ustilaginene, Peronosporene, Uredineae and many Ascemycetes, but insisted on the necessity of tracing the evolution of each organism from spore to spore. One of his most fruitful discoveries was the true meaning of infection as a morphological and physiological process, which he traced in Phytophthory, Cystopus, Puccinia and other Fungi, and thereby demonstrated the significance of parasitism. He showed wherein lay the essential differences between a parasite and a saprophyte.

These researches led to the explanation of epidemic diseases. de Bary's contributions to which are well seen in his classical work on the potato disease in 1861. They also led to his discovery of heteroccism (or metoccism) in the Uredineae, the truth of which he demonstrated in wheat rust experimentally (1863). He described the phenomena of sexuality in Peronosporeae and Ascomycete.—Euroticum, Erysphie, Pecisa, etc., and established the existence of parthenogenesis and apogamy on a firm basis. He did much work on the Chytridieae, Ustilagmeae, Exoasceae and Phalloideae, as well as on the Myxomycetes; he contributed to algology in his monograph on the Conjugatae (1858), and investigated Nostocaceae (1863). Chara (1871). Acetabularia (1869), etc. In 1877 appeared his Comparative Anatomy of Ferns and Phanerogums, and in 1885 his Lectures on Bacteria (Eng trans 1887).

Memors of de Bary fe libe ound m Bo Cen albl 838 mm 93 b W nelm Br a d bo Ge o v 858) p u h R e each tha to hi vorus Bo Zen g 1889 o zivil o 3 bv Gra zu Soems Laubach

DEBENTURES AND DEBENTURE STOCK: 588 COMPANY LAW; MORTGAGE

DEBORAH, the name of two women mentioned in the Old Testament (Heb for "bee"). (1) Foster-mother of Rebecca, buried under the 'Oak of Weeping' below Bethel (Gen xxxv 8) It has been suggested that this tree is connected with the "palmtree of Deborah," between Bethel and Ramah (Judges iv 5), the home of Deborah (2) This latter is the famous prophetess and "judge." who, in company with Barak, son of Abinoam, delivered Israel from a Canaanite oppression.

Two narratives of this exploit have been preserved, an account in prose in Judges v, and a descriptive point in Judges vi. They differ in one or two important details. The most obvious contrast is in the identity of the enemy overthrown. The prose narrative makes the enemy Jabin, king of Hazor, though a prominent part is played by his commander-in-chief, Sisera, who lived at Hazosheth-haggoyim. In the poem Jabin does not appear, and Sisera is an independent king. It is possible that the introduction of Jabin is due to the conflation of two traditions, one of which referred to Sisera, while the other was parallel to the story of the defeat of Jabin, king of Hazor, by Joshua (Josh xi 1-9) at the Waters of Merom. Another contradiction is to be found in the manner of Sisera's death. In Judges ch. iv he is murdered in his sleep in the volume he is struck down from behind whilst drinking a bowl of null.

Assuming that the tradition preserved in ch v is the older. we can do something to reconstruct the actual history of the events Israel holds the wilder parts of the country, the hills and the forests, but their settlements in the central range are cut off from those in the northern hills by a chain of Canaanite (Egyptian?) fortresses down the plain of Esdraelon For the time the plain dominates the hills; the Israelites are disarmed and their communications are cut. At the instigation of the prophetess Deborah, and possibly aided by her spells. Barak raises the claus of Ephraim, Benjamin, Machir (Manasseh). Zebulun, Issachar and Naphtali Asher, Dan, Gilead (Gad) and Reuben hold aloof. Judah and Simeon are not mentioned. The Israelite clans fall on the enemy at Taanach; a thunderstorm, in which Israel sees the coming of Yahweh, strikes terror into the Canaanites, their chariots are useless on the sodden ground, and the Kishon swollen by torrential rains, sweeps away the fugitives Sisera escapes on foot, pursued by Barak, but, taking refuge in the tent of Heber the Kenite, is treacherously slaughtered as he drinks.

The poem is one of the most important documents of ancient times. It is contemporary with the events to which it refers and is therefore invaluable as a picture of the life of Israel in the early days of the settlement. Further it is in itself a magnificent lyric outburst, and proves a very high standard of poetic skill in ancient Israel

Bibliography—For fuller details see G. A. Cooke, History and Song of Deborah (1892), the commentaries on Judges and the histories of Israel, Paton (Syric and Palestine, pp. 158 sqq.) suggests that the battle was against the Hitties (Sisera, a successor of Shamgar). See also L. W. Batten, Journ. Bibl. Lit. pp. 31-40 (1905), who regards Judges v. and Josh XI. as duplicates, Winckler, Gerch. Israels, it. 125-135. Keilinschr n. d. Alte Teste 3rd ed., p. 218; and Ed. Meyer. Israeliten, pp. 272 sqq., 487 sqq.; also Burney, Judges, ad Icc. Essieldt, Die Quellen des Richterbuches, pp. 22, 23. (T. H. R.)

DE BOSIS, ADOLFO (1863-1924). Italian poet and man of letters, was born at Ancona. He studied at the University of Rome, where he graduated in law and practised for a few years, but was always more interested in literature. In 1895 he became extor of Il Connito. Although he became manager of the Italian Carbide Company, he continued his literary activities. He translated Shelley's "Prometheus Unbound" (1922) and Homer into Italian verse. He collected his own poems in a volume entitled Amori ac silentio sacrum (1900, rep. 1914, 1923). De Boeis exercised considerable influence on the younger authors of his time, many of whom were inspired by his deep love of the classics and keen sense of beauty. He died near Ancona on Aug. 29, 1924.

DEBRECZEN one of the larges town, in Hungary (pop 10, coo, as saturated at the junction of three contrasted regions, viz .- the extensive Hortonagy pastures or puscia, the Nyuseg sandy plateau and the marshes of the Berettyo In early times it commanded two important routes, the salt way from Szannar to western Europe and the road from Bohemia to Transylvania, both traversed by important trade movements in the mediaeval period, it is still an important railway junction. It developed as a market centre with special interests in cattle and grain and as a walled town accracted numerous refugees from surrounding plundered villages during the Turkish advance in the 15th century Partly as a result of this the municipality acquired large areas of territory and now owns nearly four hundred square miles. Much of this was cultivated by farmers who maintained houses and often worked in the town during the winter season but of recent years villages known as tanyas have grown up in the surrounding district. The town tends more and more to function as the centre of economic and intellectual inspiration for its region through its fairs, its agricultural academy, its well-equipped university and its long tradition of spiritual independence which has made it the focus of Protestant ideals in Hungary and gained for it the name of "Calvinistic Rome" This outlook first determined in the 16th century has caused a stormy history but strengthened its position in the national structure

Apart from its agricultural activities many veried industries have developed upon a small and local scale, notably the manufacture of seap, prepared foodstuffs and tobacco.

DEBS, EUGENE VICTOR (1855-1926), American Socialist leader, was born at Terre Haute, Ind., on Nov 5, 1855. On leaving the public schools he became in 1871 a locomotive fireman In 1879 he was elected city clerk of Terre Haute and in 1881 was re-elected During 1885 he was a member of the Iadiana legislature. Previous to this, in 1880, he was elected secretary and treasurer of the Brotherhood of Locomotive Firemen and was appointed editor of The Locomotive Firemen's Magazine. In 1895 he organized the American Railway Union and was elected president of the union, serving four years. In 1894 he led the strike which, beginning in the Pullman-car plants, soon involved the railways leading into Chicago.

Debs was arrested on a charge of conspiracy to kill, and acquitted, but was later convicted of contempt of court for violating an injunction, and sent to gool for six months (May-Nov. 1895) In 1897 he joined the Socialist movement. He was Socialist candidate for the Presidency of the United States in 1900, 1904, 1908, 1912 but declined the nomination in 1916. In 1907 he was on the editorial staff of the Appeal to Reason, and in 1914 became editorin-chief of the National Rip-Saw, a Socialist paper published at St. Louis. He was an advocate of industrial unionism, though he eventually dissociated himself from the IW.W. (q.v.), and was one of the chief opponents of Samuel Gompers (q.v.).

He was a pacifist and in Sept 1918 was convicted of violating the Espionage Act and sentenced to ten years in the penitentiary. In 1920, while in prison, he was again nominated presidential candidate by the Socialists and received 915,302 votes. His sentence was commuted by President Harding in Dec. 1921. He died at Eimhurst. Ill., Oct. 19, 1926. He was one of the foremost figures in American Socialism.

He was the author of Liberty (1895), Unionism and Socialism, a Plea for Both (1904); The American Movement (1904); Industrial Unionism (1905), The Growth of Socialism (1910); The Children of the Poor (1911); and Walls and Bars (1927). Also see Stephen Marion Reynolds, Life of Eugene V. Debs (1910). Max Eastman, The Trial of Eugene V. Debs (1919); Walter Hurt, Eugene V. Debs: an Introduction (1919); David Karsner, Debs: His Authorized Life and Letters (1919); and Scott Nearing, The Debs' Decision (1919). Consult also Debs' Magazine.

DEBT, a definite sum due by one person to another Putting aside those created by statute, recoverable by civil process, debts may be divided into three classes: (1) judgment debts (see Judgment Debtor), (2) specialty debts, (3) simple contract debts. As to judgment debts it is sufficient to say that, when by the judgment of a court of t jurisdiction an order is made

be f p p a n o let bet a recinary deby A special deby is covered by coen or from under seed. Unto your special deby is covered by coen or from under seed. Unto your special deby is covered by coen or from under seed. La" this was unalished by the Administration of Esta es Act of . MENT . and year. The main direction name is true a socciation debt may to comeral be created without constitution as for exemple of a land under seal and that a right of a cost taking out of a special to their is not surred if and used any time which 20 3 2.15 where is a mean of across arising our of a surface contract debt is . turned gribss exercised within the error of a Limitation, Signtire or, lay other dest from a judgment or specially devithe interest sleave a strain of the residence references implied contracts to pay

It English common are debts and other choses in action were ret essigneble is a Chose) but by the Judicature Act 1973 only which express nouce in whing is given to the debier trustee or other person from about the assigner would have been entitled to receive or ciaim such debt is effectual in isw. The discharge of a debt may take place either by payment of the amount due, by scherd and substaction i.e. acceptance of something else in this charge of the highly, by set-of $(g \, z)$ by release, or under the law of hunkruptcy $(g \, v_i)$. It is the duty of a debtor to pay a $_i$ debt authout nating for any demand, and unless there is a place appeared either by custom or agreement, he must seek out his creditor for the purpose of paying him unless he is newond the

Imprisonment for debt, the evils of which have been so grapheasly described by Dickens, was abolished in England by the Debtors Act, 1869 except in cases of default of payment of penalties, default by trustees or solicitors and certain other cases But in cases where a debt or instalment is in arrear and it is proved to the satisfaction of the court that the person making default either has or has had since the date of the order or Judgment the means to pay the sum in respect of which he has ! made default and has refused or neglected to pay, he may be commuted to prison at the discretion of the judge for a period of not more than 42 days. In practice, a period of 21 days is usually the maximum period ordered. Such an imprisonment does not operate as a satisfaction or extinguishment of the debt, and no second order of commitment can be made against him for the same debt, although where the court has made an order or judgment for the payment of the debt by instalments a power of commutal arises on default of payment of each instalment. In Ireland imprisonment for debt was abolished by the Debtors Act Ireland) 1872, and in Scotland by the Debtors (Scotland) Act 1880 In France it was abolished in 1867, in Belgium in 1871, in Swazerlard and Norway in 1874 and to Italy in 1877. In the United States imprisonment for debt was universal under the common law but it has been abolished in every State, except in certain cases, as where there is any suspicion of fraud or where the debter has an intention of removing out of the State to avoid his debts (See also Contract; Bankruptcy, Payment; National Dear)

In the United States the law is in general as stated above, But the effect of a seal to make consideration unnecessary to the creation of a debt has been very generally abolished by statute; even where not abolished, the effect has commonly been reduced to raising a prome tacie presumption of consideration Yet the seal commonly retains its effect of lengthening the period of limitation. The notice of an assignment need not, in the United Stases, he given to the debtor m writing And the English rule that payment by a third person will not discharge has either been shelished or rendered substantially null by liberably in constrains the stendorest of evidence into "ratification" by the district. . . .

u mosa the end counterpart of the eco ...m.c concept 'erede' (yt), and where liquidity of credit is important dents are commonly put in the form of regotable instructions to inciding transfer (See Bill of Exchange elsty drow had preference affect English have over supple contract. There is nowever some financing done by merchants transferring Per to an top as one of the bankraproy or decid of the celter their book accounts—though at a heavy discount. (See Assign

DEBT CONVERSION. Conversion is the term applied to the exchange of any form of security for another form of security Though the exenunge is usually connected with a decrease in cost to the Lorrover of the security in question, this is not always the Late It is sometimes necessary more particularly in time of war when a series of loan operations is probable to assure subscribers to an earlier issue that they will be entitled to 'convert' it to any later is us made on more favourable terms. Such a provision There are also certain distincte or nebts which arise from their or ; was a common feature of British war loans, for instance, holders of 31% War Loan were entitled to convert into 5% War Loan, and holders of National War Bonds of the first three series retained a right to convert at any tune on favourable terms into 5% absolute assignment of any dect or other legal chose in action, of War Loan. Similarly in the United States holders of the 31% First Liberty Loan were entitled to convert into the 4% Second Liberty Loan and holders of the Second Liberty Loan into the 47% Third Literty Loan

But the more frequent and more interesting cases of conversion arise in connection with debt reduction. Public debt, other than the relatively limited amount created for revenue producing purposes usually results from a period of financial emergency in which revenue has not covered expenditure and the State has accordingly had to pledge its credit in circumstances least favourable to itself. It has, therefore always been the natural object seas." Payment by a taird person to the creditor is no discharge ; of financial statesmanship, as soon as normal financial conditions at a debt as a general rule, unless the debtor subsequently ratifies return to reduce the burden of debts created under duress after an earthquake, a famine or a war. This course is dictated by the consideration that ex hypothesi, the debt is raised at a price higher than the credit of the State in normal circumstances would justify. It is also desirable because as a rule the great public debts such as war debts, justified and even inevitable as they may have been, do not leave behind them any concrete object from which posterity can see that it draws tangible benefit

Methods of Debt Reduction .- The burden of debt may be reduced in various technically distinguishable ways. In the first place, debt may be redeemed either out of budget surpluses (in Great Britain called 'old sinking fund") or out of a sinking fund provided within the normal budget (in Great Britain called 'new sinking fund"), these resources being applied either to paying off debt as it fals due or to the purchase of public stock or bonds on the Stock Exchange at current market prices or, where the loan contract so permits, to drawings of individual bonds by lot for payment at a fixed price usually not necessarily at par. These latter redemptions can be effected irrespective of the date on which the debt holder is entitled to claim repayment from the State as a right In the second place, maturing debt, that is to say, debt for which the repayment date as fixed by the loan contract has arrived, may be repaid out of money raised by new borrowing on more favourable terms. This operation, which is properly a form of redemption, is frequently, though inaccurately, described as conversion. In the third place holders of the debt which has not yet reached its maturity date may be persuaded to exchange their holdings into some other form of debt. This is debt conversion proper, its essential feature being the exchange of one obligation for another Conversion is normally a voluntary process Forced conversion, such as for instance the Italian "Lictor" Loan of 1926, is a practical operation in certain cases. Whether it is a wise operation depends on such factors as the financial position and traditions of the country concerned; the nature of the crisis with which it is faced; and its probable needs for further credit Obviously, when a particular class of persons have lent money to the community on agreed contractual terms, it requires very exceptional circumstances to justify subsequent compulsion $\dot{\sigma}$ accept other terms presumably less advantageous to themselves.

These three of debt reduct on are frequently practised in combination. Indeed with a large volume of debt no one

of hem can be accessful rolation each corbues ordisa co er d ond tion of he succe of the others Large re enue surpuses appued o debt redemp on n G ea B am and the United Sa es of An.e..ca in the years immediately tollowing 1913 were the essential preliminary to that appreciation of the national credit of the two countries which caused their public securities to rise in price and consequently anabled the two Treasuries to replace old debt by new debt on cheaper interest terms. Where the total debt is large, the maintenance of a substantial sinking fund provided out of revenue is primarily required for this purpose. A recuction in the supply of any commodity tends to intensify the demand for that commodity and thus to increase the price which not converted may remain considerable. It may almost be said the seller can obtain. A reduction in the volume of debt has precisely the same effect. The borrowing Government can sell its wares at a better price by reducing the amount in supply. A sinking fund which removes stock or bonds from the market and cancels them enhances the price of what remains and enables maturing debt in excess of what can actually be paid off to be replaced at a lower interest rate. Similarly, the reduction in the erroment. The unwillingness of the holder to be paid off is a motive volume and the increase in the value of Government securities ! enables conversion schemes to be launched with success,

It is futile to single out any one method of debt reduction as a success or a failure. The general result usually flows from the combined use of all methods; and the attribution of specific portions of that result to any single method tends to be misleading Redemption and conversion go together Thus, in Great Britain the interest charge for the debt was reduced by £19 000,000 per annum in the period between 1920-21 and 1925-26. It, to compare like with like, allowance is made for the fact that in the former year only £289,000 was paid on the debt due to the United States Government while in 1925-26 the full interest charge of over £28,000,000 was paid the real reduction in interest charge is seen to be more than £47 000 000 per annum. Of this reduction it may be said that £29,500 000 was due to the repayment of debt from revenue, £16,000 000 to the replacement of short-term floating debt by cheaper floating debt, and £1,500 000 to strictly identifiable long-term conversions. It is however, impossible to say what would have been the result of any one of these three methods without the concomitant of the other two.

Conditions of Conversion.—It is usually held that for successful conversion certain preliminary conditions must be fulfilled The problem is to persuade the holder of a given security that it is in his interest to accept instead another security subject to different terms as regards interest, redemption date and possibly other privileges. The holder will probably be affected in the first place by his belief in the political stability of the borrowing Government. He will not wish to extend in time his conscistment to a State which is politically insecure or which for any reason is likely in the visible feature to depreciate its credit. He will require to be convinced that his new commitment if he accepts conversion, is not likely to fall in value. The first condition is therefore the prospect of general stability as regards both external and internal politics. In the next place the investor will need to be persuaded that general financial conditions are such that the new security which he is offered is likely to represent as much as he can expect to receive if he waits until his existing security is paid off and he has to seek a new investment. The normal type of conversion would be somewhat as follows: A security is due for repayment or can be called by the borrower for repayment, say five years hence. The borrower wishes to replace that security now by a conversion issue carrying a lower rate of interest and repayable, say 30 years hence. His chance of persuading the holder to accept such a proposal will therefore depend on the holder's estimation of the relative advantages of making certain of a lower rate of interest for the longer period of 30 years, and of retaining for another five years his original (higher) rate of interest subject to the risk that when paid off in five years time he will not be able to reinvest his money so profitably as if he had accepted the conversion offer. The second condition of successful conversion is therefore a general belief that financial tendencies are such that future interest rates are likely to decline. The outward sign of such a belief is usually that the security to be

quo ed n he market at or o er as redemption a Le or .ha. means that the market thinks that the interes. payable on that security is above the normal current rate. Thus for the 14 months previous to the Goschen conversion in 1988 Consolidated 3% Stock had averaged Lioi 9s 9d in spite of the fact that the Government could call the stock for repayment at Lioo Fivally much depends on the amount of the issue to be converted A very large issue is physically difficult to handle; the number of holders who from ignorance or inertia will not respond to a conversion offer even if advantageous to them, may in the aggregate be great; and for both reasons the amount of the issue that in normal circumstances a third condition of successful conversion is that not too much is attempted at any one time. In many cases there is a special feature which emphasizes the importance of this condition. It is frequently necessary in order to bring holders into a conversion scheme to announce that such holders as do not convert will be paid off by the borrowing Govto induce him to convert. But a Government can only make such an announcement if it can feel sure that it can readily roise the amount of cash it will require to pay oif those who do not convert This will depend partly on the size of the issue and therefore of the probable unconverted remanet to be paid off, and partly on the position of the Government's short-term debt. The Government will probably have to have recourse to short-term horrowing to meet the remanet, and the cost and possibility of such borrowing will depend entirely on the amount of short Government paper already in existence. At the time of the Goschen conversion the unfunded debt (treasury bills, exchequer bills and exchequer bonds) was only £17,385 100, and the Government had consequently no difficulty in raising at reasonable rates the £19 817 952 it temporarily required to redeem non-converted stock

British Conversions.—The more important conversions of British Government debt have been as follows .-

(a) Before the World War

1749 Pelham offered holders of £57,703 475 4% stocks then standing above par a new stock bearing 4% interest till 1750, 31% interest till 1757 and thereafter 3% interest 154 413 433 stock was converted at an annual saving of £272,067 for five years and then of £550,101; and the balance was paid off at par

1822 Vansittart offered holders of Navy 5% and Irish 5% then standing at 108% to an amount of £152422,143, a 4% stock at 105, £149.627.867 was converted at an annual interest saving of £1,197,015, and the balance of £2,794,276 paid off in cash This conversion owing to the issue at 105 added £7,481,350 to the nominal total of the National Debt.

1824 Robinson offered holders of £76,248,180 4% annuities then standing at 101\frac{1}{2} and new 3\frac{1}{2}\% stock at par \(\frac{1}{2}\frac{1}{2}\,000,000 \) was converted at an interest saving of £381,242 per annum

1830 Gouloum offered holders of the £153 561 091 4% stock (remaining from Vansittart's operation in 1822) now standing at 1022, either 32% stock at par or 5% stock at 70 £150 790,179 was converted, all but £670,567 into 3½% stock, with an annual interest saving of £753,952

1844 Goulburn offered holders of the £248,860,663 32% stock resulting from the 1824 and 1830 conversions now standing at 101% conversion at par into a stock carrying 31% for ten years and then 3%. £248.757.311 was converted at an annual saving of £631.893 per annum for the first ten years, and £1,243 786 per annum thereafter.

1834 Childers endeavoured to convert £612,761,061 3% stock standing at 101% into either 24% stock at 102 or 24% stock at 108 But only £22 362,595 was converted, at a saving in interest of £62,303 per annum, and an increase of £1,515,604 on the nominal total of the debt

1888 Goschen offered the holders of £557,992 508 new 3% (Goulburn) Reduced Three per cents (Pelham) and 3% Consols, then standing at 103% a new stock at par ("Consols") bearing 23% interest, to be reduced after 25 years to 23% £514.311,702 was converted (over 92%) at an annual saving of £1.411 943 for 25 years and of £2.823,886 thereafter. (It is interesting to

, h. mg 2 & 6 & * Cu. 3 2 at the second of the control of the 3 8 7 ĩ --- E T and the Maria taplace, and that transcending of the Exchequer were ad between of introse in normal debt from effecting interest. smale. It was also be observed that slocks triggrally set at an The conversions of Jamestary that Goulburn 1830 and 1844 and Goschen 1998 Jesneps as regards Reduced Threes and Consec-] the essent of holders to conversion was assumed unless they signified assent within a presented period

. Dr Since the World War.

Lowen March 31, 1914 and March 31, 1910 British Dead- | and to very argo rehorrovings to meet maturities as they fell coo oco 4% Notes due the British Treasury launched a number of pure conversion! interial conditions, (b) the large amounts to be handled, and It the large outstanding floating debt are very clearly reflected of the US Treasury department have been as follows. in the relatively slow progress. The Treasury have had to conduct their operations under for from ideal conditions

The main conversion operations have been as follows

ipm total Holders of 575 National War bonds repayable at offered 32% Conversion Loan at £160 to £163 for each £100 bone. £164 000,000 5% bonds were converted into £266,000 000 31% loan at an increased interest charge of £1 110 000 per annum against which must be set (a) the advantage of postponing the maturity for many years and avoiding an increase in short-term | from these operations was about \$15,000,000 debt (b) a saving of £3,382,000 in premiums

February 1922. Holders of 5% Exchequer bonds were offered 31% Conversion Loan at £136. £14,500,000 were converted into £13.500.000 Conversion Loan, with an interest saving of £35,000

per ancum

April 1912 £70 000 000 5% War bonds due in October 1922 and April 1923 converted into £94 000 000 31% Conversion Loan at £134, with an interest saving of £218.000 per annum.

1973 ill,000 000 5% National War bonds converted at par (with cash payment of £215'%) into 41% Treesury bonds 1932.

Interest saving, £57,000 per annum

1924 Holders of 51% Exchequer bonds offered the choice of (a) 11% Conversion Loan 1940/44 at par (with cash payment of £215 %) or (b) 41% Treasury bonds 1934 at par £82,000,000 of bonds were converted at par, with an annual interest saving of £1,026,800

April 1914 Holders of 5% War Loan 1929-47 (to a total of £200 occ,000) were offered 41% Conversion Loan 1940/44 at 103 f148,000,000 was converted into £153,000,000 Conversion

Loan at an interest saving of £541,000 per annum

1925. Three issues of 31% Conversion Loan Jan. for £59,-660 000; April £30,000,000. Sept. £40,000 000; thus reducing the florting debt from £\$45,825,000 in 1924 to £\$16,641.000.

Oct. 1926. Helders of 5% Treasury Bonds invited to convert

t Without to tell them on the constitutions and

ten : followers in the were offered conversion The state of the s oc were or ged and fine 984 coo Treasury bonds at an

Down to took the net result of conversions on the annual in terest charge was not great. Their importance lay in providing by postponement for the heavy maturities of debt and in clearing the way for future conversions, more particularly that of the large fre War Lean which can be repaid by the State at its option

uiter a date va 1929.

United States Conversions.—After the Civil War the Fed eral deut amounted to about \$3,000,000,000 of which \$500,000,000 was short-term debt. Secretary Hugh McCulloch commenced in 1365 by turning this short debt into 30-year 6% Notes. By 1858 while learn time from abaggrapood to an S31 744 coo. and of the had repaid out of surplus \$510,000 000; and he then while "he wise enormins figure only some 1315 000 000 was permanent"! maintaining a high annual debt redemption, converted these 50by tunded. The scope for debt conversion provided that sair- year Notes into 20-year Notes (with a right to pay them off in factory financial and position conditions could be secured was lave years). His successor Secretary Boutwell, having further thus large. In addition to each amounting in the six years 1920- 'required the debt outstanding was able in 1870 to convert the 26 to 1703,308 and applied aut of revenue to debt redemption, 16% Notes into \$200 000 000 5%, \$300,000,000 42% and \$1,000.

After the World War the United States had the advantage of operations. These operations, still in 1928 in progress, should be a debt two-thirds the size of that of Great Britain very much regreted as a single whole rather than a series of separate trans- | larger resources on which to draw; and surpluses for debt reactions each by itself comparable say, to the Goschen conver- duction amounting in the last eight years to over \$3,000,000 sion. The difficulties arising from (c) the slow recovery to sound (approximately £500,000,000) in addition to sinking fund proper of about another \$3 500 000,000. The main conversion operations

Dec. 1924 Holders of Third Liberty 41% bonds due in 1928 were offered 4% bonds 1944-54 at par. \$532 420,300 were con-

verted at an annual interest saving of \$1389,231.

Feb 1927. Holders of \$3,083,671,700 Second Liberty Converted s premium on verious dates from Oct. 1922 to Sept. 1925, were, 41% bonds 1942 callable in Nov 1927, were offered 31% Treasury Notes 1930-32, at par \$1,360 456 450 were converted A further \$358,973 100 were converted into similar 32% Notes in Sept. 1927 and \$245,256,450 were converted in June into 38% Treasury bonds 1943-47. The annual interest saving resulting

Jan. 1928. Holders of Third Liberty 42% Bonds were offered 32% Treasury Notes 1930-32 at par \$503,626,550 were con-

verted, at an annual interest saving of \$4 527 198

BELIOGRAPHY—For British conversions, particularly Goschen's conversion of 1883, E. W. Hamilton, Conversion and Redemption (1889); and Report of Committee on National Debt and Travition (1925), for United States Conversions, Annual Reports of the Secretary of the Treasury for 1924, 1927, 1928 (O.E. N.)

DEBT INSURANCE: see CREDIT INSOLVENCY and BAD

DEBT INSURANCE.

DEBTS, INTER-ALLIED: see INTER-ALLIED DEBTS.

DEBUSSY, CLAUDE ACHILLE (1862-1918). French composer, was born at St Germain-en-Laye on Aug. 23, 1862, and died in Paris on March 26 1918. His musical training he received at the Paris Conservatoire under Marmontel, Lavignac, Massenet and Gurrand There, between 1874 and 1884, he gained many prizes for solfege, pianoforte playing, accompanying, counterpoint and fugue, and, in the last-named year, the coveted Grand Prix de Rome by means of his cantata L'Enfant prodique. In this composition germs of unusual and new talent were already latent, though, in the light of later developments, it is not very easy to discern them, for then Debussy had not come under the influence which ultimately turned his mind to the system which he afterwards used in so remarkable a manner

Early Tendencies .- It was not long, however, before these highly-individual tendencies revealed themselves For in order to fulfil that condition of the Prix de Rome which entails the submitting periodically of compositions to the judges, Debussy sent to them his symphonic suite. Printemps, to which exception was immediately taken by the judges on the ground of its formlessness and other unacademic qualities. Following in the wake of Printemps came La damoiselle élue for female voices (solo and chorus) and orchestra—a setting of a French version of Rossetti s "The Blessed - which, in the eyes of the judges was

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The Rome period of a Debusy return dito Paris whence hot line went to Russ a whele he came directly under the inmiddle of duence already referred to. That is to say, he absorbed here the super-implication music especially that of Moussorgsky who recently deceased, had left behind him the reputation of a musical nubilist, and on his return to Paris the results became speedily apparent. At the same time the effect of this Russian visit should not be overrated, and there is no reason to suppose that it did more used from than confirm and strengthen tendencies which were already behaved a blaved a played a played a

Recognition Tardy.—Public recognition was rather slow in coming to Debussy but in 1893 the Société Nationale de Musique performed his La Lamoiselle élue, in 1894 the Yeave quartet introduced the string quartet (one of his greatest achievements), while in the same year was heard another of his most remarkable and individual creations the now world-famous prelude L'Aprèsmids d'un fausse, which could no longer leave room for doubt as to the originality of its composer. Concurrently also, his pianoforte pieces were being performed more and more. The works named were followed in due course by his only opera, Pelléas et Mélisande, first heard at the Opéra Comique on April 30, 1902. Then it was little understood, but understanding came in due course, and it was recognized as one of the most notable contributions to the repertory of the lyric stage since Wagner.

In an Apología which he subsequently published, Debussy declared that in composing Pelléas he had wanted to dispense with "parasitic musical phrases" "Melody," he observed, 'is, if I may say so, almost anti-lyric and powerless to express the constant change of emotion and life. Melody is suitable only for the chanson, which confirms a fixed sentiment. I have never been willing that my music should hinder, through technical exigencies, the change of sentiment and passion felt by my characters. It is effaced as soon as it is necessary that these should have perfect liberty in their gestures or in their cries, in their 103 and in their sorrow" And these principles found exquisite expression in the work as carried out, of which Dr. Ernest Walker has happily observed—"It is one of the great landmarks in the history of opera, it is the summit of musical impressionism, catching every faint nuance of the words, always suggesting rather than saying, but always tense and direct and full of throbbing beauty

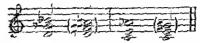
Works for Piano and Orchestra.—But, outstanding as is Pelléas et Mélisande, it is surpassed even in importance by Debussy's contributions to piano literature, in which by the novelty of his methods he was responsible for the greatest development which had been effected in the technique since Chopin. In such things as La Soirée dans Grenade, Jardin's sous la pluie, L'isle joyeuse, Reflets dans l'eau, Bruyères and La Cathédrale engloute, be revealed possibilities which had previously been entirely unsuspected in the best known and most exhaustively studied of all instruments. Such music might not be of the highest order, indeed it made no pretensions to bigness or grandeur, but in its delicacy, subtlety and refinement, in its exquisite adaptation of the most novel means to the purposes of the most sensitive musical impressionism, it possessed a fascination all its own, and may be said to have opened a new chapter in the history of the art.

Debussy's work for the orchestra was, as a whole, of less significance in the technical sense, he did many fine things also, besides the consummate L'Après-Midi, in this field. Such are the exquisite nocturnes Nuages, Pêtes and Swènes, one and all the last word in delicate impressionism. Neither should mention be omitted of his songs, all characterized by the same individuality of style and perfection of workmanship distinguishing his music as a whole and including such examples as "Mandoline," "Recuillement," "Fantoches," "La Flûte de Pan" and "La Chevelure," things which have long since won universal favour.

Musical System.—As to the theories so much debated of this remarkable musician, probably in the whole range of musical history there has not appeared a more difficult theorist to "place." Unquestionably Debussy has introduced a new system of colour into music, which has begun already to exert widespread influence.

Rough Debu s votem may be summarized thus:

F.st. a scale basis is of six whole tones (enharmonic), as middle C, D E, Gb Ab, Bb, which are of excellent sound when super-imposed in the form of two augmented unrelated triads



used frequently incomplete (i.e., by the amission of one note) by Debussy

Now, upon the basis of an augmented triad a tune may be played above it provided that it be based upon the six-tone scale and a fugue may be written, the re-entry of the subject of which may be made upon any note of the scale, and the harmony will be complete

Secondly, a free use of the chord of the 7th 9th, 7th and 13th upon every degree of the scale instead of (as in the conventional theory) only upon the tonic, super-tonic and dominant, in conjunction with melodies constructed upon the ordinary diatonic scale. These two methods have an interesting connection which can be shown, i.e., let a major 9th be taken:



one may conventionally flatten or sharpen the fifth of this (A becoming # or h as desired): if both the flattened and sharpened fifths be taken in the one chord this chord is arrived at,



which is composed of the notes of the aforesaid scale whole-ione. It will be noticed that chords of the 9th in sequence and in all forms occur in Debassy's music as well as the augmented triad harmonics, where the melodic line is based on the tonal scale. This, in all likelihood is the outcome of Debussy's instinctive feeling for the association of his so-called discovery with the ordinary scale.

But the appearance of a whole-tone scale as a by-product of two ordinary chords a tritone apart (as in a Neapolitan cadence) decorated by passing notes:

must not be confused with the conscientious avoidance of classical key-relation which Debussy intends. As is shown in the article Harmony, even Debussy's whole-tone scale really falls into the classical scheme, with much more various results. Debussy himself becomes effectic in his later works, though he would never have allowed the whole-tone thord to resolve in a classical polyphony.

(R H L.: X)

DÉCAEN, CHARLES MATHIEU ISIDORE, COUNT (1769-1832), French soldier, was born at Caen on April 13, 1769. He made his name during the wars of the French Revolution under Kléber, Marceau and Jourdan, in the Rhenish campaigns. In 1799 he became general of division, and fought at Hohenhinden (Dec. 1800) Selected by Napoleon early in the year 1802 for the command of the French possessions in the East Indies, he set sail with Admiral Linois early in March 1803 with a small expeditionary force, touched at the Cape of Good Hope (then in Dutch hands), and noted the condition of the fortifications there. On arriving at Pondicherry he found matters in a very critical condition. Though the renewal of war in Europe had not yet been heard of, the hostile preparations adopted by the Marquis Wellesley caused Decaen to withdraw promptly to the Isle of France (Mauritius), where, for eight years, he sought to harass Bruish trade and prepare for plans of alliance with the Mahratta princes of India They all came to naught. Linois was captured by a British squadron, and ultimately, in 1811, Mauritius itself fell to the British. Decaen then received the of the French troops in Catalonia. He died of the cholera in

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THE DECALOGUE, IT IN TO WORK TO BE TO BE A STATE OF THE COM-MONTHS OF THE PROPERTY OF THE PROPERTY OF THE STATE OF THE ST tome 25 entropy God on the two tipues of stone Expd The Decalogue in Christian Theology.—Following the New 11 from the so-called Tilles of the Continuous Testament in which the 'commandments' summed up in the law then the try of the forestends of the Decalogue (Mark removed at The photos were crossed). Most sexual try to 19. Rom this of the few commandments of the few commandments and the precepts of the Decalogue (Mark removed at The photos were crossed). Most sexual try to 19. Rom this of the few commandments and the precepts of the few commandments. ix 101. They were deposited in the Ark Each are at a Ka vid omy Further, 'he term 'Ten Words' does no' occur in Exod ! inus of Florence, Gerson, etc) xx, but is found in Exod xxxiv 28, in a context which seems to 1 Important theological controversies on the Decalogue begin togue embedded in Evod xivey 10-16

The Decalogue of Exed. xx., Deut. v.—Comparison between the two texts, especially in the law of the Sepbath, strongly sugcests that neither form is original both having been expanded from a rather sporter common source. It seems that in the earlier ! commandments even this common source has been extended from a much more concise primitive form and that the commands first ! tock the form of simple injunctions and prohibitions of the same

type as 'Thou shalt not steal"

Different views have been held as to the actual divisions of the Decalogue. Thus Philo regarded Exod xx 2-3 as the first commandment while the Talmud made v a the first and vv 3-6 the first commandment extend from v 2 to v 6, and distinguish the covering of a wife from the covering of property (This last is only possible on the basis of the text in Deuteronomy) The ar-Churches taxes Exod xx. 2 as an introduction, separates the prehibition of apostasy from that of the making of images, and unites the clauses probibiting covetousness into a single commandment Different opinions obtain as to the date of the Decalogue The general tendency is to place it late rather than early, though the view that the whole is Mosaic has been revived by some

modern scholars (e.g., McFadyen and Volz).
The Decalogue of Exod. xxxiv. 12-26.—This passage contains a number of precepts and if we are to see here the original 'Ten Words' referred to in v 28, it is clear that we have them ! in a greatly expanded form. It is, moreover, far from certain as to how we are to apportion the "Ten Words" among the precepts contained in these verses. We may, perhaps, find the best arrangement as follows (1) prohibition of worship paid to other gods, (2) prohibnion of melten images, (3) observance of the feast of unleavened bread, (;) the feast of weeks (5) the feast of the ingathering at the begunning of the year, (6) the seventb day rest. (7) firstlings and firstiruits (separated in the text as it stands), (8) prohibition of leaven with satrificial blood, (9) specificial fat must not be left over till the morning, (10) a kid! must not be seekbed in its mother's milk

It goes without saving that other arrangements are possible. and some is whally satisfactory. But on any identification of the indicates parcepts, we feature stand out clearly. In the first

See M. L. E. Gautes, Br., offer and one Descent Chem., Sec., people in the wilderness and to a settled agricultural community. These Lie general Descent are indeed in Ro. Historial of the latter agricultural community of the latter It is vorth noting that most of the piecepis are found also in the book of the Covenant 'Exod XX-XXXX E / Where they occur unconnected with the another. This fact together with the very simple type of ritual enjoined has suggested a Judaean rather than an Ephramute origin for Evod XXXV, 12-16.

and two vivienes were have taxivity and upon them were amphasized the permanent obligation of the ten commandments which the south of the absence his Moses taxivity, say, as a summary of natural in contradistinction to ceremonial preor, as writing to another len, by the nim-elt 'Deur Lv. 13 I cepts, though the observance of the Sabouth was to be taken in a spiritual sense (Augustine De spiritu et litera, xiv., Jerome De go In Decrements the Inscription on these tables, which is a colchiatione Pasance. The mediaeval theologians followed in the briedy collect the cover and our 130, is expressly identified with same due, recognizing all the precepts of the Decalogue as moral the words spoken by Jehovah (Tahweh) out of the midst of the precepts de lege naturae, though the law of the Sabbath is not fire at Mr. Since of Horse successing to the Demeronemic tradi-, or the law of nature in so far as it presentes a determinate day rion, in the form of the whole people on the "day of the of rest (Thomas, summa InaHae quick art 3. Duns, Super assembly and rehearsed in violation. The order of the command-servenius, fib iii. dist 37: The most amnormant mediaeval exporments varies in some apprent texts (Varian ms. of the LXX, suffer of the Decalogue is that of Nicolaus de Lyra, and the 15th Nish Pupprus' and there are differences in detail between the century, in which the Decalogue acquired special importance in form in which the Decisionae appears in Exodus and in Deuteron- the confessional was prolific in treatises on the subject (Anton-

imply that the wards mentioned had immediately preceded this with the Reformation. The question between the Lutheran passage. Accordingly some scholars would find another Deca- (Augustinian) and Reformed (Philonic) division of the ten commandments was mixed up with controversy as to the legitimacy of sacred mages not designed to be worshipped. The Reformed theologians took the stricter view. The identity of the Decalogue with the eternal law of nature was maintained in both churches but it was an open question whether the Decalogue, as such (that is, as a law given by Moses to the Israelites), is of perpetual obligation The Socinians on the other hand, regarded the Decalogue as abrogated by the more perfect law of Christ, and this view, especially in the shape that the Decalogue is a civil and not a moral law (J. D. Michaelis), was the current one in the period of the 13th century rationalism. The distinction of a permanent and a transmory element in the law of the Sabbath is second thus identifying the sms of apostasy and idelatry. In | found not only in Luther and Melanchthon but in Calvin and Christian circles the Roman and Lutheran Churches make the other theologians of the Reformed church. The main controversy which arose on the basis of this distinction was whether the prescription of one day in seven is of permanent obligation. It was admirted that such obligation must be not natural but positive; rangement of the Orthodox Eastern. Calvinistic and Anglican but it was argued by the stricter Calvinistic divines that the proportion of one in seven is agreeable to nature based on the order of creation in six days, and in no way specially connected with anything Jewish. Hence it was regarded as a universal positive law of God But those who maintained the opposite view were not excluded from the number of the orthodox. The laxer conception found a place in the Cocceian school.

tion found a place in the Cocceian school.

Bibliography —Geficken, Uber die verschiederen Eintheilungen des Dekalogs und den Einfinss derselben auf den Cultus, W Robertson Smith, Old Test Jew; Church, pp 331-345, where his earlier views (1877) in the Ency Brit ise largely modified (cf. also Eng Hist Rev Is883] p 352), Montesiore Hibbert Lectures (1892), Appendix 1, W. R. Harper, Internal Crit Comm on Amos and Hosea, pp 58-64 (on the position of the Decalogue in early pre-prophetic religion of Israel); C. A Briggs, Higher Crimism of Hexat op 189-210, see also Commentaries, Exodus and Deuternomomy (W. R. S; S. A. C.)

DECAMPS, ALEXANDRE GABRIEL (1803-1860), French painter, was born in Pans on March 3. 1803, and died at Barbizon on Aug 22, 1860. In his youth he travelled in the East. and reproduced oriental life and scenery with a bold fidelity to nature that made his works the puzzle of convenuonal critics He med in consequence of being thrown from a vicious horse while hunting at Fontainebleau. He was probably the first of European painters to represent scenes from Scripture history with their true and natural local background. Of this class were his "Joseph sold by his Brethren." 'Moses taken from the Nile," place the provisions are all ritual rather than ethical, and in the , and his scenes from the life of Samson, nine vigorous sketches in second piece while some of them are equally adapted to a nomad charcoal and white. Decamps produced a number of genre preEr s cheftv of enes from French and Algerme dom s le Probably he best known o all hi works s The Mo kev Con no sse rs a ce er sa re of he jury of the French Academy of Paining, which had rejected several of his earlier works on account of their divergence from any known standard

See Moreau's Decamps et son oeuvre (1860)

DE CANDOLLE, ALPHONSE: see (\$ 7) CANDOLLE ACGUSTIN PRYAMI: DE

DECAPOLIS, a league of ten cities situated with one exception on the eastern side of the upper Jordan and the sea of Tiberias. The names of the ten cities are Damascus Phiadelphia. Raphana Scythopolis (=Beth-Shan, now Beisan, W. of Jordan). Gadara Hippos, Dion. Pella Geiasa and Kanatha. Of these Damascus alone retains its importance. Scythopolis (as represented by the village of Beisan) is still inhabited; the ruins of Pella, Gerasa and Kanatha survive. Scythopolis, in command of the communications with the sea and the Greek cities on the coast was a very important member of the league. The purpose of the league was mutual defence against the marauding Bedouin tribes that surrounded them

It was soon after Pompey's campaign in 64-63 BC that the Decapolis league took shape. The cities comprising it were united by the main roads on which they lay, their respective spheres of influence touching one another. A constant communication was maintained with the Mediterranean ports and with Greece. The cities were subject to the governor of Syria and taxed for imperial purposes.

The best account is in G A Smith's Historical Geography of the Holy Land, thap xxviii

DECASTYLE, the architectural term given to a portico that has ten columns, as in the temple of Apollo Didymaeus at Miletus. also applied to a building with such a portico (see TEMPLE)

DECATUR, STEPHEN (1770-1820), American naval commander, was born at Sinnepuxent (Md.) on Jan 5, 1779, and emered the US Navy as a midshipman in 1798. He was promoted heutenant and saw service in the short naval war with France (1798-1800). In 1803 he commanded the 'Enterprise," a part of Commodore Preble's squadron in the Mediterranean, and in Feb 1804 led an expedition into the harbour of Tripoli to burn the US fingate 'Philadelphia." which had fallen into Tripolitan hands. He succeeded and made his escape under battery fire with only one man wounded. This exploit earned him his capitain's commission and a sword of honour from Congress. He was engaged in all the attacks on Tripoli during 1804 and 1805.

In the War of 1812 his ship the "United States" captured H M S 'Macedoman" In 1813 he was appointed commodore to command a squadron in New York harbour soon blockaded by the British In an attempt to break out in Jan 1815 his flagship the "President" was forced to surrender to a superior force. Subsequently he commanded in the Mediterranean against the corsairs of Algiers, Tunis and Tripoli with great success. He was made a Navy commissioner (Nov 1815), an office which he held until killed in a duel with Commodore James Barron at Bladensburg (Md) on March 22, 1820. A toast of his has become famous—"Our country! In her intercourse with foreign nations may she always be in the right, but our country, right or wrong."

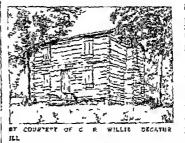
See A. S. Mackenzie, Life of Decatur (Boston, 1846)

DECATUR, a city of northern Alabama USA, on the Tennessee river 75m N of Birmingham, served by the Louisville and Nashville and the Southern railways, the county seat of Morgan county. It was formed in 1927 by the consolidation of Albany. formerly called New Decatur (pop. 7,652 in 1920) and Decatur (pop. 4,752 in 1920) and its population was estimated locally at over 20,000 in 1928. The city has many important manufacturing industries, including a large cotton-mill, steel works, lumber-mills and wood-working plants, cotton gins and compresses, cotton-seed oil mills, silk and hosiery factories, tannenes, iron foundries and railroad shops.

DECATUR, a town of Georgia on the Georgia railroad, im. E of the city limits of Atlanta, at an altitude of 1,000ft; the county seat of Dekalb county. The population was 6 150 m 1920 (21% negroes) and was estimated locally at 13,500 in 1928. It is

re d n al u a b he eat of Coumbia Theological seminary Pr. by.er...n., and of Agnes Scott college for women (Presby terian), founded in 1889 as a "female seminary" and named after the mother of a generous peneractor, Col George W Scott Decatur was incorporated in 1823

DECATUR, a city in the central part of Illinois, U.S.A. on the Sangamon river, the county seat of Macon county. It is on Federal highways 36 and 51, and is served by the Baltimore and Ohio, the Illinois Central, the Illinois Traction (electric), the Pennsylvania and the Wabash railways. The area is 6,100 acres. The population was 43,318 in 1920 (91.4% native white), and was estimated by the census bureau at 56,000 in 1927. Decauit is a pleasant city, of diversified manufacturing industries, in a rich agricultural region underlain with coal. It has a commission form of government. The assessed valuation of property in 1927 was \$19.639.953. Bank debits in 1926 amounted to \$240.327.000. There are parks in and near the city covering 729ac., in one of which the original county court-house (of logs) is preserved. Lake Decauar (12m. long), constructed in 1922—23 to assure an ample



COURT-HOUSE IN MACON COUNTY, ILLINOIS. ERECTED 1829. WHERE ABRAHAM LINCOLN PRACTISED LAW WHILE ON THE EIGHTH JUDICIAL CIRCUIT

and dependable supply of water, provides fishing, boating and hathing There are two coal mines within the city. The factory output in 1927 was valued st \$51.797,095 Corn products Istarch, syrup, hominy, meal, flour, oil, feed, sugar, gums and soap) are the most important manufactures, and the cornmilling plants have a grinding capacity of over 50 000 bushels a day Others of importance are brass plumbing goods, sodafountain and office fixtures, mal-

teable iron, grey iron, structural steel and sheet steel. The Wabash has its principal repair shops here, also its bospital for employes. The James Millikin university (opened 1903) has an endowment of over \$1,250,000. Decatur was founded in 1829 and incorporated in 1836, and was named after Stephen Decatur, one of the first settlers. It was the first Illinois home of Abraham Lincoln, and the Grand Army of the Republic was organized here on April 6, 1866.

DECATUR, a city of eastern Indiana, U 5 A, on St. Mary's river, room NE of Indianapolis, the county seat of Adams county It is on Federal highway 27, and is served by the Erie, the Nickel Plate and the Pennsylvania railways. The population was 4,762 in 1920 (97% native white) and was estimated locally at 5,500 in 1928. It is surrounced by a farming and lumbering region, and has various factories. Decatur was settled about 1836 and incorporated in 1882.

DECAZES, ÉLIE, Duc (1780-1860), French statesman, was born at Saint Martin de Laye (Gironde) on Sept 28 1780 He studied law, became a judge in the tribunal of the Seine in 1806, was attached to the cabinet of Louis Bonaparte in 1807, and was counsel to the court of appeal at Paris in 1811 Insmediately upon the fall of the empire he declared himself a royalist, and remained faithful to the Bourbons through the Hundred Days. He made the personal acquaintance of Louis XVIII. who appointed him prefect of police at Paris in July 1815. His marked success in that difficult position won for him the ministry of police, in succession to Fouché, on Sept 24. In the interval he had been elected deputy for the Seine (Aug 1815) and both as deputy and as minister he led the moderate royalists. His formula was to royalize France and to nationalize the monarchy" The Moderates were in a minority in the chamber of 1815, but Decazes persuaded Louis XVIII to dissolve the house, and the elections of Oct. 1816 gave them a majority. As minister of police he had to suppress the insurrections provoked by the ultra-royalists (the White Terror), then, after the resignation of the duc de Richelieu. he took the actual direction of the ministry, although the nominal president was General J. J P A Dessolle (1767-1828) He held at the same time the portfolio of the interior. The cabinet in

24 12 6 8 and and , als morniquities and the regime of frerry. His reforms made such the strong hospidity of the chamber of press where the ultra-royalms were in a majority and to overtome it be got the langit comits forces. Libertlipeers. He then pussed the laws on the prise suppressing the censorship. By morganization of the finances the projection of industry and the carrying out of great public works. France regared its economic prosperity. and the mineral became popular. But the powers of the Grand Abulta has teen warding the erc an of Liberalism in France with an ornery that was increased by the election of the celecrased Abbit Gagaire. A threat of foreign intervention rather than the clamour of the Uluras, forced Louis XVIII to urge a change in the electoral him that should render such a scapeal as Gregoire's election impossible for the future. Dessolve and Louis, refusing to embark on this policy, now resigned, and Decares became head of the new ministry, as president of the council (Nov. 1319). But the exclusion of Grégotre from the chamber and the changes in the franchise embittered the Radicals without conciliating the 'Ultras" The news of the revolution in Spain in Jan 1820 added fuel to their fury, and when, on Feb 13 the dake of Berry was murdered clamorous tongues budly accused Decazes of being an accomplice in the crime Decazes indeed foreseeing the slorm at once placed his resignation in the Ling's nands. Louis at first refused. But in the end he was forced to yield to the unportanity of his family (Feb. 17th), and Decazes raised to the rank of duke passed into honostable exile as ambassador to Great Britain.

In Dec 1821 he returned to an in the house of peers, when adressed to the monarchy of July, but after 1848 he remained in retirement. He had organized in 1826 a society to develop the coal and iron of the Aveyron, and the name of Detazeville was given in 1809 to the principal centre of the industry. He died on Oct 24, 1860.

His son, Louis Charles Elie Decazes, duc de Glucksberg (1819-1886), was been at Paris, and became minister plenipotennary at Madrid and at Lisbon. In 1871 he was elected deputy to the National Assembly by the Gironde, and was chosen by the duc de Broglie as minister of foreign affairs in Nov 1873. He voted with the Orleanists the "consututional laws" of 1875, and approved of MacMahon's parliamentary comp detat on May 16. '877 He died on Sept. 16, 1886

DECAZEVILLE, a town of south-central France, in the department of Aveyron, 34 m NW. of Rodez by the Orleans railway. Pop (1926) 11,560 It possesses iron mines and is the industrial centre of the coal- and fron-fields of the Aveyron, which supply the iron-works established by the Duc Decazes, minister of Louis XVIII. A statue commemorates the founder.

DECCAN (Sans. Dukshina, 'the South"), a name applied, according to Hindu geographers, to the whole of India situated south of the river Nerbudda. It is sometimes understood as the country between that river and the Kistna, the latter having long formed the southern boundary of the Mohammedan empire of Delhi. In the more extended meshing it comprehends the whole Indian penasula, and in this view the Eastern and Western Ghats constitute the most striking feature. These two ranges unite in the arth with the Windyr Tournal in form a vast it's salessinent, the against the train from Copies a morta to the They are the herbiches. The arrive of the considering slopes from the terminary are all livers the control of the control of Kistna and Force there decising have an one from he base of the Verteen words, the raiding above was tractile has of Bengal theoryt Asserts in the Education Chair

History -- she are no restor or in the monty begins and the sale con so are (For the early moon, see Explicit

94 Au Dakh embero of Delhi, in a ed he Deccan D. resuced the Yadava rajas of Maharashtra to the partion of tributary princes (see DAULATABAD), then pro ceeding southward overran Telingana and Carnata (1204-1300) In 132" owing to non-payment of tribute, a fresh series of Muslir moursions began under Malik Kafur, ending in the final rum of the Yadava power; and in 1338 the reduction of the Decean was completed by Monammed ben Tughlak. The imperial sway was however, of brief duration. Telingana and Camata speedly reverted to their former masters, and this defection on the part of the Halos states was followed by a general revolt of the Musum governors, resulting in the establishment in 1347 of the ingeneration. Mohammedan dynasty of Bahmani, and the consequent withdrawal of the power of Delhi from the territory south of the Nerbudga On the dissolution of the Bahmani empire (1450), its dominions were distributed into the five Mohammedan states of Golconda Bijapur, Ahmadragar, Bidar and Berar, To the south of these the great Hindu state of Carnata or Vijayanagar (q:) still survived, but this too, was destroyed, at the battle of Talikota (1565 . by a league of the Mohammedan powers, who also in their turn soon disappeared before the victories of the Delhi emperors Their rule was of short duration. In 1706 the Mahrattas acquired the right of levying tribute in southern India and their principal chief the Peshwa of Poona, became a praccically independent sovereign. A few years later the emperors viceroy in Ahmadnagar, the mzam-al-mulk, threw off his allegiance and established the seat of an independent government at Hyderabad (1724) The remainder of the imperial possessions in the commends were held by chieftains acknowledging the supremacy of one or other of these two potentates. In the sequel, Mysore became the prize of the Mohammedan usurper Hyder Ali Mysore he communed to maintain his Liberal opinions. After 1830 he formed one of the earliest British conquests in the Deccan. Tanjore and the Carnatic were shortly after annexed. In 1818 the forfested possessions of the Peshwa added to their extent, and these acquisitions, with others which have more recently fallen to the paramount power by cession, conquest or failure of heirs, form a continuous territory stretching from the Nerbudda to Cape Comorin.

See J D B Gnbble, History of the Deccan (1896), Prof. Bhandarkar. "Early History of the Dekkan" (Bombay Gazetteer); Vincent A Smith, Early History of India revised by S M. Edwardes (1924).

DECELEIA (Gr. Asredera), an Attic deme, on the pass which led over the east end of Mt Parnes towards Oropus and Chalcis. commanding the Athenian plain. Its eponymous hero Decelus was said to have indicated to the Tyndaridae, Castor and Pollux. On the Duc Decazes see E. Daudet, Louis XVIII. et le duc Decazes | the place where Theseus had hidden their sister Helen at Aphidization and his "L'ambassade du que Decazes in the Revue des deut nae; and hence there was a traditional friendship between the mendes for 1899. Deceleians and the Spartans (Herodotus 12. 73). This tradition. together with the advice of Alcabiades, led the Spartans to fortify Decelera as a basis for permanent occupation in Artica during the later years of the Peloponnesian War, from 413-404 BC Its position enabled them to harass the Athenians frequently and to form a centre for fugitive slaves and other deserters. The royal palace of Taxor has been built on the site

See Peloponnesian War; also Judeich in Pauly-Wissowa, Realencyklopadze

DE CELLES, ALFRED DUCLOS (1843~ dian writer was born at St Laurent, and educated at Quebec seminary and Lavai university. He edited successively the newspapers Le Journal de Quebec, La Muserce and L'Opinson Publique before becoming librarian of the Dominion parliament in 1880 Thenceforth he devoted himself to history, producing La crise du régime parlementaire (1888); A la conquête de la liberté en France et au Canada (1890); Les constitutions du Canada (1890); Les Étais-Unix (1896), Papineau, Cartier (1905), Cartier et son temps (1907); papers in vol. xv. of Canada and its Provinces on "The Province of Quebec" (1914); and The "Patriotes" of 1837 (1920).

DECEMBER (Lat decem, ten), the last month of the year In the earliest Roman calendar, the year was divided into ten months the last of which was called December, or the tenth If we have I seam to . The west was ladient) mouth, and this name was retained for the last or 12th month or the year as now divided. Julius Caesar gave the month its | semi-intoxication in which the truth was likely to be blurted out present length. The Saturnalia occurred in December, which Another test depends on the variation in electrical conductivity of explains the phrase of Horace "libertate Decembri utere." Martitle skin caused by the secretion of sweat under pressure of emotial applies to the month the epithet carus (hoars), and Ovid styles it gelidus (frosty) and jumesus (smcky). The Saxons called it winter-monath, winter month and heligh-monath, holy month, from the fact that Christmas fell within it Thus the modern Germans call it Christmonat In December is the date of the winter solstice, when the sun reaches the tropic of Capri-

DECEMVIRI, "the ten men," the name applied by the Romans to any official commission of ten, followed by a statement omist and legislator, was born at Spinazzola. He studied at Naples of the purpose for which the commission was appointed, e.g. Yviri sthibus iudicandis, sacris faciundis, etc

I Usually, it signified the temporary commission which superseded all the ordinary magistrates from 451 to 449 BC, for the purpose of drawing up a code of laws In 462 BC a tribune proposed the appointment of a commission to draw up a code to secure for the plebs a defence against magisterial caprice. In a52 BC decemvirs were appointed to draw up a code; during their tenure of office all other magistracies were in abeyance, but they were bound to maintain the rights of the plebs. The first board of decemvirs (wholly patrician) held office during 451 BC, the chief man among them was Appius Claudius (see CLAUDIUS) The decemvirs ruled with singular moderation, and submitted to the Comitia Centuriata a code of laws in ten headings So popular were the decemvirs that another board of ten was appointed for the following year, some of whom, if the extant list of names is correct, were plebeians. These added two more to the ten laws of their predecessors, thus completing the Laws of the Twelve Tables (see Roman Law) But their rule then became violent and tyrannical They were forced to abdicate (449 B.C).

II The judicial board of decemvirs (sthitibus judicandis) formed a civil court concerned mainly with the status of individuals They were originally a body of jurors under the presidency of the practor (q v), but eventually became minor magis-

trates of the republic, elected by the Comitia Tributa

III The priestly board of decemvirs (sacris faciundis) was half patrician and half pleberan. They were first appointed in 367 B C., instead of the patrician duumviri who had hitherto performed religious duties Their chief function was the care of the Sibylline books, and the celebration of the games of Apollo and the Secular Games

IV Decemvirs were also appointed from time to time to controi the distribution of the public land (agris dandis adsignandis,

see Agrarian Laws).

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DECEPTION TEST, a name given to the measurement of certain bodily changes caused by the effort of lying, or by fear due to a sense of guilt. Working at Graz, Austria, in 1914, Vittorio Benussi devised a test based on the idea that the rate of breathing is affected by the effort of telling a he, and that this change could be accurately measured. Three years later Harold Burtt further developed this method in the Harvard Psychological Laboratory In 1915 W M Marston, working in the same laboratory, had tested the relation of blood pressure to the effort of lying, but found that all persons examined showed blood pressure higher than normal whether they lied or told the truth

A psychological deception test, based on association of words, was devised in Austria by Wertheimer and Klem in 1904, and developed by Carl Jung in Switzerland in 1905. Jung read a list of words to three nurses suspected of stealing a purse. Some of these words referred to objects which would have been seen when the theft was committed, and the suspects were asked to give associated words. In Jung's view the guilty nurse gave words which would not have been in the mind of an innocent person

and further revealed guilt by delay in answering

was used by a Texas physi-The vegetable alkalo d clan R E House with the idea that it produced a

the skin caused by the secretion of sweat under pressure of emotion. The objection to these forms of trial by ordeal is that they are considered too uncertain to be used with assurance in criminal trials

See C T McCormick, "Deception Test and the Law of Evidence," California Law Review (Sept. 1927).

DECEREBRATE RIGIDITY: see Equilibrium, Ani-

DE CESARE, CARLO (1824-1882), Italian political econand was successively inspector-general of the banks of issue, secretary-general of agriculture, industry and commerce in 1868, and counsellor of the "cour des comptes" In his chief work, Manuale di Economia pubblica (2 vols, 1862), he advocated the doctrines of Ricardo Of his numerous other works the most important are Il mondo civile e industriale nel secolo xix (1857), Del potere temporale del Papa (and ed. 1861). Il primo unitario italiano (and ed, 1861); La Politica, L'Economia e la Morale die moderni Italian (1869), and La Germania Moderna (2nd ed., 1874). De Cesare died at Rome in 1882

DECHAMPS, ADOLPHE (1807-1875), Beigian statesman, born on June 17, 1807, at Melle, in 1842 became governor of Luxembourg, in 1843 minister of public works, during his office working for the opening up of railways, and in 1845 minister of foreign affairs. His intimate knowledge of contemporary politics is exhibited in his La Second Empire (1859), L'Empire et L'Angleterre (1860), La France et L'Allemagne (1865) and Le Prince de Bismarck et l'entrevue des trois empereurs (1873) He died on July 19, 1875

See E de Moreau, A Dechamps (Brussels, 1911).

DECHEN, HEINRICH VON (1800-1889), German geologist, was born in Berlin on March 25, 1800, and was educated in the university in that city. He was in the service of the mining department of the Prussian State for 44 years in all, being its director from 1841 to 1864 He paid special attention to the coalformation of Westphalia and northern Europe generally and wrote some important works on the mineralogy of the Rhineland. but his main work was a geological map of Rhenish Prussia and Westphalia in 35 sheets on the scale of 1:80,000, issued with two volumes of explanatory text (1855-82) He published also a small geological map of Germany (1869) He died at Bonn on Feb. 15. 1889.

DECIDUOUS, a botanical and zoological term for "falling in season," as of petals after flowering, leaves in autumn, the teeth or

horns of animals, or the wings of insects.

DECIMAL: see Arithmetic, Fraction; Numerals.

DECIMAL COINAGE, any currency in which the various denominations of coin are arranged in multiples or submultiples of ten (Lat decem) with reference to a standard unit. Thus if the standard unit be I the higher coins will be 10, 100, 1,000, etc. the lower -1, -01, oor, etc. In a perfect system there would be no breaks or interpolations, but the actual currencies described as "decimal" do not show this rigid symmetry. In France the standard unit—the franc—has the 10 franc and the 100 franc pieces above it, the 10 centime below it, there are also, however, 50 franc, 20 franc, 5 franc, 2 franc pieces as well as 50 and 20 centime and other denominations. Similar irregularities occur in the German and Umted States coinages

Subject to these practical modifications the leading countries of the world (Great Britain and India are the chief exceptions) have adopted decimal coinage. The United States led the way (1786 and 1792) with the dollar as the unit, and France soon followed (1799 and 1803), her system being extended to the countries of the Latin Union (1865) Germany (1873), the Scandinavian States (1875), Austria-Hungary (1870, developed in 1892) and Russia (1839 and 1897) are further adherents to the decimal system The Latin-American countries and Japan (x87x)

have also adopted it.

In Great Britain proposals for often been Besides the

e of altering the

s at isher currency, the cubiculty is contoxing between the differen scher es projectamen aut l'est à densitarable obstacie. Otte plan took the tarthog as a base ther to furthings = I call and to douts = I form the ing to forms = I pound (108 to). The advantages caused for this sendme were the preservathat of the evening unit of ville. Another proposal would retain the pland as unit and the form, but will a subdivide the latter. r > 121 ut...s '(cr farthings remuted 4/1 and introduce a new) to n = 10 units (241 By r the aut of account would remain as a are seri, and the shilling as 50 and a would continue in use The astaration of the broad and severa, sin or coins, and the need , Tandrustler of values and prices expressed in peace, formed, the printipal difficulties

A third scheme, which was connected with the assimilation of English to French and American money proposed the establishment of an 8s gold com as unit, with the temperary or franc and the penny (reduced by 4%) as subdivisions. The new coin would be equivalent to to france or joy an anticipated reduction of the

dollar : i dollars

A fourth scheme was put forward by the Decimal Association to meet the objections raised by the Royal Commission on Coinage of 1018-20 to the proposed £-mill system (=£ divided into 1 000 parts) This scheme lest all the silver coins unchanged but proposed to increase the value of the copper coms by 20%, so that the similing would consist of ten instead of 12 pence

For the general question of monetary scales see Money and for the decimal system in reference to weights and measures see (C.F B) METRIC SYSTEM and WEIGHTS AND MEASURES

DECIN, a town on the right bank of the Elbe in Czechoslovakia it cales its chief importance past and present to the and that it shares with the sister-town of Podmokly (q v) the guardianship of the entrance to Bohemia from Saxony In addition to being a customs town and port and a great centre of trade it has a varied development of industry, its products comprising chemicals, confectionery, dyes, plaster of Paris, cotton goods celulose, flour and beer. The town is dominated by a rocky height crowned by an old 17th century chateau and the frontier position is evident in the fact that its control has alternated between Saxony and Bohemia and in the composition of the present population, 12.244 of whom 9,289 are German The town has road and rail connection with Pedmokly by bridges

DECIUS, GAIUS MESSIUS QUINTUS TRAIANUS (AD 201-251) Roman emperor, was born at Budalia near Sirmium in lewer Pannonia in 201 About 245 the emperor Philip the Arabian entrusted him with a command on the Danube and in 249 (or end of 248), having been sent to put down a military rising in Moesia and Pannonia, he was proclaimed emperor, against his will. Phihp advanced against him and was slain near Verona. Decids had to take the field at once against the Goths, who crossed the Danube and overran Moesia and Thrace The cetails of the campaign are obscure. The Goths were surprised by the emperor while besieging Nicopolis on the Danube, at his approach they crossed the Balkans, and attacked Philippopolis Decius followed but was deteated near Beroë. Philippopolis fell and its commander, Priscus, declared himself emperor under Gothic protection. The siege had so exhausted the Goths, that they offered to surrender their booty and prisoners on condition of being allowed to retire unmolested. But Declus, who had succeeded in surrounding them, refused their offer. The final engagement took place on swampy ground in the Dobrudja near Abritum (Abritus) or Forum Trebonii and ended in the defeat and death of Decius and his son. Decius was a capable soldier and administrater. The chief blet on his reign was the systematic and authorized persecution of the Christians, which had for its object the restoration of the religion and institutions of ancient Rome Decisis tried to revive the separate office and authority of the causiar. The choice was left to the senate, who unanimously selected Velerian (afterwards emperor) who declined the responsatisfity. The impassion of the Gorks and the death of Decius put an and to the abovies attempt Sanda Barrer

See Aurolus Victor De Caelaribus, 29, Epit 29, Jordanes De rebus Getite, 18 fragments of Decuppe, in C W Miller Frag Hist Graer Li 1842, Gibbon Decupe and Fall, chap 10, H Schiller Geschichte der 7, 122_the 1, Kuserzert 1 (pt 2) 1883

DECIUS MUS, PUBLIUS: see Mus

DECIZE, a town of central France in the department of and the smaller falls and the ave dence of interference with Nevre, on an island in the Loire 24 m SE, of Nevers by the the smaller retail prices. Its creat desadvintage was the destruct. Paris-Lyon railway. Pop. (1906) 3.477. Julius Caesar mentions it as Decetia stronghold of the Aedui and in 52 BC held there a meeting of the senate to settle the leadership of the tribe and to reply to his demand for aid against Vercingetorix Later the counts of Nevers ewned it and granted it a charter of franchise in 1226 The church of Saint Are dates in part from the 11th and each centuries, there are also rains of a castle of the counts of Nevers Decize is the starting-point of the Nivernais canal The coat mine of La Machine which belongs to the Schneider Com pany of Le Creusot lies 4 m to the north. The industries of Decize and its suburbs on both banks of the Loire include the working of gypsum and lime, and the manufacture of ceramic products and glass. Trade is in horses from the Morvan, cattle coal, iron, wood and stone

DECKEN, KARL KLAUS VON DER (1833-1865), German explorer, was born on Aug 8, 1833, at Kotzen He left the mintary service of Hanover in 1860 to explore East Africa He reached the volcanic mountain Kilima-Njaro which he ascended to the height of 15 cooft, and then explored the East African coast. In 1865 he attempted to navigate the Juba river, but with three others was murdered in Bardera by the Somali, the rest of the party escaping to Zanzibar

See O Kersten. KK v. der Deckens Reven in Ostafrika (4 vols.

DECKER, SIR MATTHEW, BART (1679-1749). British merchant and writer on trade, born in Amsterdam in 1679, came to Lordon in 1702 and established himself there as a merchant He was a director of the East India Company, sat in parliament for four years as member for Bishops Castle, and was high sheriff of Surrey in 1729 He was created a baronet by George I in 1716 Decker's fame as a writer on trade rests on two tracts. The first, Serious considerations on the several high duties which the Nation in general as well as Trade in particular, labours under, with a proposal for preventing the removal of goods, discharging the trader from any search, and raising all the Publick Supplies by one single Tax (1743, name affixed to 7th ed., 1756), proposed to do away with customs duties and substitute a tax upon houses He also suggested taking the duty off tea and putting instead a licence duty on households wishing to consume it. The second, an Essay on the Causes of the Decline of the Foreign Trade, consequently of the value of the lands in Britain and on the means to restore both (1744), has been attributed to W Richardson, but internal evidence is strongly in favour of Decker's authorship. He advocates the licence plan in an extended form urges the repeal of import duties and the abolition of bounties and, in general, shows himself such a strong supporter of the doctime of free trade as to rank as one of the most important forerunners of Adam Smith Decker died on March 18, 1749

See the exhaustive article by Prof. E C K. Gonner in Palgrave's Dict. Pol Econ.

DECLARATION, formerly, in an action at English law a precise statement of the cause of action. Under the system of pleading established by the Judicature act 1875, the declaration has been superseded by a statement of claim setting forth the facts on which the plaintiff relies Declarations are now in use only in certain local courts of record, and in those of the United States and some British colonies in which the Common Law system of pleading survives. In the United States a declaration is termed a "complaint," which is the first pleading in an action It is divided into parts—the title of the court and term: the venue or county in which the facts are alleged to have occurred, the commencement, which contains a statement of the names of the parties and the character in which they appear; the statement of the cause of action, and the conclusion or claim for rehef (See PRACTICE AND PROCEDURE)

The term is also used in other English legal connections; eg,

the Declaration of Insolvency (see Bankruptcy) the Declaration of Title for which when a person apprehends an invasion of his title to land he may by the Declaration of Title act 1362 petition the Court of Chancery (see Land Registration), or the Declaration of Trust (see Trusts) By the Statutory Declarations act 1835 a solemn declaration may be substituted for an affidavit. In nearly all civilized countries an affirmation is now permitted to those who object to take an oath or upon whose conscience an oath is not binding. (See Affidavit; Oath)

An exceptional position in law is accorded to a Dying or Deathbed Declaration. Where the charge is one of homicide it is the practice to admit dying declarations of the deceased with respect to the cause of his death. Unsworn declarations as to family matters, e.g., as to pedigree may also be admitted as evidence, as well as declarations made by deceased persons in the course of their duty. (See EVIDENCE.)

In the United States the declaration survives in such States as still follow common law pleading. It is a statement of all material facts constituting the plaintiffs cause of action in a methodical and legal form filed appropriately. Where code pleading has been adopted, the complaint supersedes the old declaration

In the United States, the declaration of intention is that statement of an alien that he intends to renounce his or her citizenship and acquire that of the United States. Popularly it is known as "first papers". It may be filed at any time in a court competent in naturalization matters, even though the alien may not be naturalized until he has been a resident for five years. A declaration expires if the alien fails to file his application for naturalization or "second papers" within a period of seven years thereafter. If subsequently he desires to take out naturalization papers, he must file a new declaration of intention. Two years must elapse between the filing of the declaration of intention and

the application for naturalization. DECLARATION OF INDEPENDENCE in United States history, the act (or document) by which the 13 original States of the Union broke their colonial allegiance to Great Britain in 1776 The controversy preceding the war (see American Revolution) gradually shifted from one primarily upon economic policy to one upon issues of pure politics and sovereignty, and the acts of Congress, as viewed to-day, seem to have been carrying it from the beginning, inevitably into revolution, but there was apparently no general and conscious drift toward independence until near the close of 1775 The first colony to give official countenance to separation as a solution of colonial grievances was North Carolina, which, on April 12, 1776, authorized its delegates in Congress to join with others in a declaration to that end. The first Colony to instruct its delegates to take the actual unitiative was Virginia, in accordance with whose instructions—voted on May 15—Richard Henry Lee, on June 7, moved a resolution "that these United Colonies are, and of right ought to be, free and independent States" John Adams of Massachusetts seconded the motion The conservatives could only plead the unpreparedness of public opinion, and the radicals conceded delay on condition that a committee be meanwhile at work on a declaration "to the effect . resolution," to serve as a preamble thereto when of the said adopted This committee consisted of Thomas Jefferson, John Adams, Benjamin Franklin, Roger Sherman and Robert R Livingston To Jefferson the committee entrusted the actual preparation of the paper On July 2, by a vote of 12 States-10 voting unanimously, New York not voting, and Pennsylvania and Delaware casting divided ballots (3 votes in the negative)—Congress adopted the resolution of independence; and on the 4th, Jefferson's 'Declaration' 'The 4th has always been the day celebrated, the decisive act of the 2nd being quite forgotten in the memory of the day on which that act was published to the world "Independence Day" is a holiday in all the States and Territories of the United States. It should also be noted that as Congress had already, on Dec 6, 1775, formally disavowed allegiance to parliament, the Declaration recites its array of grievances against the crown, and breaks allegiance to the crown Moreover, on May 10, 17-6, Congress had recommended to the people of the Colonies I es their that they form such new gov

should deem desirable, and in the accompanying statement of causes, formulated on May 15, had declared it to be 'absolute'y irreconcilable to reason and good conscience for the people of these colonies now to take the oaths and affirmations necessary for the support of any government under the crown of Great Britain." whose authority ought to be "totally suppressed" and taken over by the people—a determination which as John Adams said, inevitably involved a struggle for absolute independence, involving as it did the extinguishment of all authority, whether of crown, parliament or nation.

Though the Declaration reads as "In Congress, July 4, 1776 The unanimous Declaration of the thirteen united States of America," New York's adhesion was in fact not voted until the 9th nor announced to Congress until the 15th—the Declaration being unanimous, however, when it was ordered, on the 19th, to be en grossed and signed under the above title. As read before the army meanwhile, it was headed 'In Congress, July 4 1776 A Declara tion by the representatives of the United States of America in General Congress assembled" Contrary to the inference naturally to be drawn from the form of the document no signatures were attached on the 4th. As adopted by Congress, the Declaration differs only in details from the draft prepared by Jefferson, censures of the British people and a noble denunciation of slavery were omitted, appeals to Providence were inserted, and verbal improvements made for the sake of terseness and measured statement The document is full of Jefferson's fervent spirit and personality, and its ideals were those to which his life was consecrated It is the best known and the noblest of American State papers. Though open to controversy on some issues of historical fact, not flawless in logic, necessarily partisan in tone and purpose. it is a justificatory preamble, a party manifesto and appeal, reasoned enough to carry conviction, fervent enough to inspire enthusiasm It mingles-as in all the controversy of the time but with a literary skill and political address elsewhere unrivalledstale disputation with philosophy. The rights of man lend dignity to the rights of Englishmen, and the broad outlook of a world wide appeal, and the elevation of noble principles, relieve minute criticisms of an administrative system

Jefferson's political theory was that of Locke, whose words the Declaration echoes Both Locke and Jefferson wrote simply of political equality, political freedom. Even within this limitation the ideabstic formulae of both were at variance with the actual conditions of their time. The variance would have been greater had their phrases been applied as humanitarian formulae to in dustrial and social conditions. The Lockian theory fitted beautifully the question of colonial dependence, and was applied to that by America with inexorable logic, it fitted the question of individual political rights, and was applied to them in 1776, but not in r690; it did not apply to non-political conditions of indi vidual liberty, a fact realized by many at the time—and it is true that such an application would have been more inconsistent in America in 1776 as regards the negroes, than in England in 1690 as regarded freemen. The Declaration's influence upon American legal and constitutional development has been profound. Locke says Leshe Stephen, popularized "a convenient formula for enforcing the responsibility of governors"—but his theories were those of an individual philosopher-while by the Declaration a State, for the first time in history, founded its life on democratic idealism, pronouncing governments to exist for securing the happiness of the people, and to derive their just powers from the consent of the governed. It was a democratic instrument, and the revolution a democratic movement, in South Carolina and the Middle Colonies particularly, the cause of independence was bound up with popular movements against aristocratic elements Congress was fond of appealing to "the purest maxims of representation"; it sedulously measured public opinion; took no great step without an explanatory address to the country, cast its influ ence with the people in local struggles as far as it could, appealed to them directly over the heads of conservative assemblies and in general stirred up democracy. The Declaration gave the people recognition equivalent to promises, which, as fast as new governments were instituted converted by written constitutions into 在此 对 "臣当祖 一下" 经收付证的 中國 法法

ed in a granure damaged by too frequent rolling of the parchappromise find, expression in Articles 2 and 3 of the Declaration, and the damaged was need in a size in the State Department which stated four promples of international law trans. Firely in 1921 it was removed to the Library of Conunders der for die priservation and safebeeping.

The aigners merch John Hancock (1737-62) of Massa-basen, president Button Gwinnin (c. 1732-77) Lyman and 11725-901, George Walton (1740-1804) of Georgia, Wilor Hooper (1742-95) Joseph Henes (1735-73) John Penn enemy (See Hert let, Treaties, x p 547) 1741-38, of North Carchina; Edward Rutledge (1749- The Declaration was signed by Austria, I 350. Thomas Herward, Jr. (1746-1509). Themas Lynch, Prissia, Russia, Sardinia and Turkey, and string-73). Arthur Middleton (1742-87) of South Carolina; Powers except Bolivia, Spain, United States armue, Chase 1741-1811), Walliam Pace (1740-99), Thomas tone (1743-8-) Charles Carrell (1757-1832) of Carrellion 1d., George Wythe (1726-1806), Richard Herry Lee (1732-94). homes Jefferson (1743-1826 Berjamin Harrison (1740-91). homus Newcz. Jr 11738-39/. Francis Lightfoot Lee (1734-97). arter Brazion (1736-97), of Virginia: Robert Morns (1734-806 - Berjamin Rush (1745-1813), Denjamin Franklin (1706o), John Morton (5724-77) George Clymer (1759-1813), James mith (c 1710-1500) George Taylor (1716-81), James Wilson 1742-681. George Ross (1730-79), of Pennsylvania; Caesar odney (1734-84), George Read (1733-98). Thomas McRean 1734-1817), of Delaware: William Floyd (1732-1801). Philip ingston (1715-5) Francis Lewis (1713-1803), Lewis Morris 1726-981, of New York: Richard Stockton (1730-81), John Inherspoon (1722-94), Francis Hopkinson (1737-91). John art (1708-80), Abraham Clark (1726-94), of New Jersey; miah Bartiett (1703-651, William Whippie (1730-85), Matew Thornton (17:4-1803), of New Hampshire; Samuel Adams 1722-1803), John Adams (1735-1326), Robert Treat Paine 1731-1814). Elbridge Gerry (1744-1814), of Massachusetts; techen Hopkins (1707-85), William Ellery (1727-1820), of hode Island; Roger Sherman (1701-93), Samuel Huntington 1732-96), William Williams (1731-1811), Oliver Wolcott (1726-7). of Connecticut. Not all the men who rendered the greatest ervices to independence were in Congress in July 1776, not all he voted for the Declaration ever signed it, not all who signed were members when it was adopted. The greater part of the gnatures were certainly attached on Aug 2: but at least six were tached later. With one exception—that of Thomas McKean, resent on July 4, but not on Aug. 2 and permitted to sign in 781-all were added before printed copies with names attached ere first authorized by Congress for public circulation in an 1777.

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(F. S. P.) DECLARATION OF LONDON: Me BLOCKARE, CONTRAtion, Print, United the Course, France and Stronger

I the carriage of property at sea at the time of the Crimean War The rate ofter the Destartion was preclaimed it had no In that France allowed enemy goods in neutral ressels to go comment, have I wind at the large, it found shear in to tree but confiscated neutral goods in enemy vessels, whilst Gree this and a sinces arms acronic escaped distruction by the and. Britain confiscated enemy goods in neutral vessels, but respected the second of the British. In 1892, when the text of the number one for neutral Accordingly each Power abandoned part of its ope and his. Symmetry more than 50 years' exposure to ught, distrines and acceded to part of its ally's documes. This com-

I. Privateering is and remains abolished; 2 The neutral flag re-s where it is on permanent exhibition in a shape specially covers enemy's goods with the exception of contraband of war. 3. Neutral goods with the exception of contraband of war, are not mable to capture under the enemy's flag; 4 Blockades in order to be binding must be effective, that is to say, maintained by a force sufficient really to prevent access to the coast of the

The Declaration was signed by Austria, France, Great Britain, Prissia, Russia, Sardinia and Turkey, and acceded to by all the Powers except Bolivia, Spain, United States Uruguay and Venezuela. Spain acceded in 1903 The United States withheld formal adherence on the ground that, not possessing a large navy, she was obliged to rely upon privateers, and she would not agree to their abolition unless the principle of the immunity of private property at sea were generally accepted. At the commencement however, of the Civil War and again in the Spanish American War 1398, she declared her adherence to the Declaration for the duration of hostilities only Spain in the latter war, whilst repudiaring any obligation to the Declaration announced that she would take a similar course

During the World War it was declared in the British Prize Court that the court would regard the Declaration not only in the light of rules binding in the conduct of war but as a recognized and acknowledged part of the law of nations, see The Marie Glasser. 1 B and C P. C 38 (414). But with the disappearance of the 'Free List", by the extension of the term 'contraband' to all commodities of use, directly or indirectly, to the enemy in the operations of war; by the presumption of hostile destination; by the application of the doctrine of continuous voyage Article 2 became almost wholly nullified. Article 3 was also rendered almost wholly nugatory by the German submarine method of indiscriminate destruction. Whilst the neutral owner of goods on board an enemy vessel was entitled to their restitution or value when brought in for adjudication, he took the risk of all necessary acts of war. It was held by the French and German Prize Courts that in the case of lawful destruction of an enemy merchant vessel compensation for loss of neutral goods on hoard could not be claimed. Sinking at sight, without visit and search, was, however, illegal, and it has now been prohibited by the Treaty of Washington, 1922, Parl Pap 1922 [Cmd 1627]. ratified by the United States, the British Empire. Italy and Japan. Article 4 was reproduced in the Declaration of London and it was objected that the so-called blockade of the German coast on the Baltic was not effective, since neutral Baltic States still had access to German Baltic ports. The answer is that the British measures were taken under the law of contraband and not under those of blockade (H.HLB)

DECLARATOR, in Scots law, a form of action by which some right of property, or of servitude, or of status, or some inferior right or interest, is sought to be judicially declared

DE CLIFFORD, BARON: see CLIFFORD

DECLINATION, in magnetism is the angle between true north and magnetic north, ie, the variation between the true (geographic) meridian and the magnetic meridian. It is derived from Lat declinare, to decline In 1596 at London the angle of declination was 11° E. of N, in 1652 magnetic north was true north, in 1815 the magnetic needle pointed 24½° W of N., in 1891 18° W, in 1896 17° 56' W and in 1906 17° 45'. The angle is gradually diminishing and the declination will n time again be be when it will slowly increase in an easterly direction the north slowly around the North Pale. Regular a no a pole

VLSG ETISM TERRESTRIAL

Ir astronomy he dechna on s the angular dis arce as seen from the eath of a hea enly body from the celesial equator, thus corresponding with terrestrial latitude (See Astronomy)

DECOLORIZING, in practical chemistry and chemical technology the removal of coloured impurities from a substance Charcoal, preferably prepared from blood, is frequently used; when shaken with a coloured solution it often retains the coloured substances, leaving the solution clear Thus the red colour of wines may be removed by filtering the wine through charcoal, the removal of the dark-coloured impurities of crude sugar may be similarly effected. Other "decolorisers" acting through purely chemical reactions are sulphurous acid, permanganates and man- , had spring from within, rather than is though it had been applied dustry. (See CHARCOAL and Adsorption)

Surgroupery - "Decolourising Carbons" T E Thorpe, Dictionary of Applied Chemistry, voi. u. p 487 Longraans, 2921

Upper Iowa river, the county seat of Winneshiek county. It is on Federal highway 55 and is served by the Chicago, Milwaukee, St. Paul and Pacific and the Rock Island railways. The population m 1925 (State census) was 4.141. It is the seat of Luther college (established 1851), is a market for thoroughbred horses and cattle, and has several manufacturing industries. There is a famous ice rave near by. Decorah was founded about 1849 and was

incorporated as a city in 1871

DECORATED PERIOD, in architecture, the name of the second of the three periods into which the English Gothic was usually divided, generally embracing the first three quarters of the 14th century. It may itself be divided into two, the earlier half being known as the Geometric period, and the later as the Curvilmear, although no definite date separates these two parts The Geometric Decorated style is characterized by window tracery based on the arch, the circle and the quatrefoil and trefoil, frequently much cusped (See Cusp) Windows of great width and height were thus treated with two, four, six or even eight lights, or main subdivisions. In the later, or curvilinear style, the ogee curve, or curve of double curvature, controls tracery design. Two main types thus developed, one, in which the tracery bars form a net, the other in which flame-like, or flowing forms predominate. (See Tracery) In the entire decorated period moulding profiles are heavy and complex; carved ornament is intricate and of great naturalism. The most famous examples are the east end of Lincoln cathedral and the crossing and western part of the choir of Ely. During the decorated period, church vaulting became much complicated and subdivided by the addition, first of tiercerons, which are additional vaulting ribs springing from the capital, and rising to the ridge; toward the end of the period there also appeared hernes, which are smaller ribs of little structural value, connecting the more important ribs, and so (T, F, H) forming star or network patterns.

DECORATION DAY, a holiday, known also as Memorial Day, observed in the northern States of the United States on May 30, originally in honour of soldiers killed in the American Civil War, but subsequently also in honour of those who fell in later wars Before the close of the Civil War May 30 was thus celebrated in several of the Southern States, in the North there was no fixed celebration until 1868, when (on May 5) Commander-in-Chief John A Logan, of the Grand Army of the Republic, issued a general order designating May 30, 1868, "for the purpose of strewing with flowers or otherwise decorating the graves of comrades who died in defense of their country during the late rebellion", Logan did this "with the hope that it will be kept up from year to year." In 1882 the Grand Army urged that the 'proper designation of May 30 is Memorial Day"-not Decoration Day. Rhode Island made it a legal holiday in 1874, Vermont m 1876 and New Hampshire in 1877; and by 1910 it was a legal holiday in all the States and Territories save Alabama. Alaska, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, South Carolina and Texas In Virginia May 30 is observed as a Confederate Momental flav Time 3 (the birthday of Jefferson Davis) is 1911 11 Control Memorial Day in Louisiana and Tennessee; April 26, in Alabama, Florida, Georgia and

M as pp and Way to in North Carolina and South Carolina. DECORATIVE ART, that art which is concerned with the decoration of objects unich in themselves are not necessarily beautiful, hence practically the same meaning as applied art or the arts and crasts. Decorative art may concern itself with the treatment of architectural units, furniture, textiles or any other object which the human being feels should not only be useful but beautiful. If the object has no use other than that of its aesthetic appeal the art is no longer decorative but falls into what is known as fine art.

Good decorative art is appropriate in its adaptation and seems to be a part of the object upon which it is executed, as though it ganates all of which have received application in the sugar in-, on the surface. In days past the craftsman who made an object decorated it so that this principle was more closely adhered to, but the modern method sometimes leads to the execution of a decoration which has little or nothing to do with the structure, DECORAH, a city of north-eastern Iowa U.S.A., on the material or teeling of the object. (See Painting Drawing, (W E Cx.) Sculpture; Arts and Crafts, etc.)

DE CORT, FRANS (1834-1878), Flemish poet, was born on June 21, 1834, at Antwerp, and died on Jan 13, 1878, at Elsene He edited the Schelde from 1858, and from 1861 to his death was secretary to the general auditor of the Brussels mintary court His Leideren (2 vols, 1837) his Imgrang (1866) and his Leideren of 1868 show great tenderness and feeling. His translation of poems from Burns appeared in 1862. He also made many fine translations from Jasmin, the Provençai poet, and from the

DECOY, a contrivance for the capture or enticing of duck and other wild towl within range of a gun, hence any trap or enticement into a place or situation of danger. Decoys are usually



AND DETMOLD, INC

made on the following plan long tunnels leading from the sea, channel or estuary into a pool or pond are covered with an arched net, which gradually narrows in width; the ducks are entited into this by a tame trained bird, also known as a "decoy" or "decoy-duck." In America the "decoy" sr countries of von Lenguages is an artificial bird, placed in the water as ARTIFICIAL DUCK DECOYS If it were feeding, which attracts the wild used to Lure Live fowl within range of the concealed sports-DUCKS WITHIN BANGE MAIL. The word "decay" has, etymologically, a complicated history It appears in English first in the 17th century in these senses as "coy' and "coy-duck," from the Dutch koos, a word which is ultimately connected with Latin

cavea, hollow place, "cage"

DECREE, in earlier form Decreet, an authoritative decision having in some places the force of law; also the judgment of a court of justice. In Roman law, a decree (decretum) was the decision of the emperor, as the supreme judicial officer, settling a case which had been referred to him In ecclesiastical law the term was given to a decision of an ecclesiastical council settling a doubtfut point of doctrine or discipline (cf. also Decretals). In English law decree was more particularly the judgment of a court of equity, but since the Judicature acts the expression "ludgment" (q v) is employed in reference to the decisions of all the divisions of the supreme court A "decree nisi," now "order msi," is the conditional order for a dissolution of marriage made by the divorce court (see Divorce). Decreet arbitral is a Scottish phrase for the award of an arbitrator. In some foreign countries, e.g. in Spain, royal decrees may amount to legislation, while in some the subsequent ratification by the legislature is required. In the United States, a decree is the judgment given in courts of admiralty and equity In addition to the decree misi, courts of equity sometimes assue decrees of nullity, for annulment of marriages.

DECRESCENDO (It.), abbr. decresc, ht "decreasing," ie., as used in the familiar musical direction, diminishing in loudness. - conveys the same meaning

DECRETALS (Epistoloe decretales), the name (see Decree above), which is given in Canon Law to those letters of the pope tical law they are generally which formulate d m

Ç3 22 74 7 E min tan datas se re un un com Ęž. € € the greater part of the Corps, there. In this connection that are seed which it the armore on Constitute Lewis

The False Decretals -A special laterest havever maches to the centifices according within as the False Decretain Tais confestion undeed the presence trees as man, cannot de councilla de Gruzetals and the decretals contained in it are not all forgenes It is an emploice a on and interpolation by means of specieties terre le ce in communal offection is the in the church in Spain in the oth century all the cocurrents in which are perfectly natherns: With these amplifications the collection dates from the michie i ne jih cen in

The author assumes the name or Livore evidently the archinhon of Serale, who was credited with a preponderating part in the compaction of the Habana is a Canon Law " as takes" in milition the sumame of Mercator, perhaps because he has made ! and of two passages of Marius Mercator. Hence the custom or 'pseudo-Ludere

The conection is divided into three parts. The first which is entirely sourious contains after the pretace and various introdurtury sections, 70 letters attributed to the popes of the first three certuries up to the council of Nicaea, ie. up to but not including St. Singster, all these are a fabrication of the pseudo-Is done ercent two sparrous retters of Clement, which were already known. The second part is the collection of councils classified according to their regions, as it figures in the Hispana: the few spurious pieces which are added and notably the ramous Donation of Constantine (q t i, were already in existence. In the third part the author continues the series of decretals which he had interrupted at the council of Nicaea. But as the collection of authentic decretals does not begin till Siricius (355), the pseudo-Is.dore first forges 30 ktters, which he attributes to the popes from Silvester to Damasus: after this he includes the authentic decretals, with 35 apocryphal ones, generally given under the name of three popes not represented in the authentic collection but sometimes also under the names of the others, for example Damascus, St. Leo. Vigilius and St. Gregory, with one or two exceptions he does not interpulate genuine decretals. The series stops at St. Gregory the Great (d 604), except for one letter of Gregory II. (715-731) The forged letters are not, for the most part, entirely composed of fresh material, the author draws his inspiration from the notices on each of the popes given in the Liber Pontificalis; he inserts whole passages from ecclesiastical writers; and he antedates the evidences of a discipline which actually existed; so it is by no means all invented.

Thus the authentic elements were calculated to serve as a passport for the forgeries which were, moreover, skilfully composed; and the collection thus blended was passed from hand to hand without meeting with any opposition. At most all that was asked was whether those decretals which did not appear in the Liber canonum (the collection of Dionysius Exiguus, accepted in France) had the force of law, but Pope Nicholas having answered that all the pontifical letters had the same authority, they were nenceforward accepted, and passed in turn into the later canonica. collections. No doubts found expression until the 15th century, when Cardinal Nicholas of Cusa (d 1464) and Juan Torquemada id 1468) freely expressed their suspicions. More than one scholar of the 16th century. George Cassander, Erasmus, and the two editors of the Decretum of Gratian, Dumodin (d. 1568) and Le Conte (d 1577), decisively rejected the False Decretals. This contention was again upheld, in the form of a violent polemic against the papacy, by the Centuriators of Magdeburg (Ecclesiasrica historia, Basic. 1559-74); the attempt at refutation by the minister Devic Bloudel (Pseudo-Isidoras et Turrionus rapulantes, Genera, 1620). Since then, the conclusion has been accepted. and all researches have been of an almost exclusively historical character.

- 4. =

Date. The acce ho comes acoustated with the rake . danta chiee cooks of capitularies of the Frankish kings mostly sparious, purporting to have been written by a certain Benetict a deacon of Mainz These are for civil legislation what the False Decretals are for ecclesiastical, and their date 347 gives the earliest possible date for the latter, on the other hand in a letter of Lupus abbot of Fernères, written in 858, and in the sproducal letter of the council of Quietzy in 857 are to be found quotations which are certainly from these false decretals, and further ar undoubted altusion occurs in the statutes of Hindman to his diccese on Nov 1 852. The composition of the collection may then he dated approximately at 850

Aim of the Forger -This is clearly stated in his preface; the reform of the canon law or rather its better application. But in weat particular respects he wishes it to be reformed can be best deduced from certain preponderant ideas which make themselves felt in the approxphal documents. He constantly harps upon accusations brought against bishops and the way they were judged his wish is to prevent them from being unjustly accused, alleding to the author of the collection under the name of the, deposed or deprived of their sees: to this end he multiplies the sateguards of procedure and secures the right of appeal to the pope and the possibility of restoring hishops to their sees. His object, too, was to protect the property as well as the persons, of the clergy against the encroachments of the temporal power. In the second place Isidore wishes to increase the strength and cohesion of the churches he tries to give absolute stability to the diocese and the ecclesiastical province, he reinforces the rights of the bishop and his comprovincials, while he initiates a determined campaign against the chorepiscopi; finally, as the keystone of the arch he places the papacy. These aims are most laudable and in no way subversive

Canonical Influence.—It is certain that in 864 Rothad of Soissons took with him to Rome if not the collection, at least important extracts from the pseudo-Isidore, M. Fournier has pointed out in the letters of the pope of that time, 'a literary influence which is shown in the choice of expressions and metaphors." notably in those passages relating to the restitutio spolu. but he concludes by affirming that the ideas and acts of Nicholas I were not modified by the new collection; even before \$64 he acted in affairs concerning bishops, e.g., in the case of the Breton bishops or the adversaries of Photius patriarch of Constantinople exactly as he acted later; all that can be said is that the False Decretals though not expressly cried by the pope, "led him to accentuate still further the arguments which he drew from the decrees of his predecessors,' notably with regard to the exceptio spolit. In the papal letters of the end of the 9th and the whole of the 10th century, only two or three insignificant citations of the pseudo-Isidore have been pointed out, the use of the pseudo-Isidorian forged documents that not become prevalent at Rome till about the middle of the 11th century, in consequence of the circulation of the canonical collections in which they figured; but nobody then thought of casting any doubts on their authenticity. One thing only is established and this may be said to have been the real effect of the False Decretals, namely, they gave a powerful impulse in the Frankish territories to the movement towards centralization round the see of Rome, and opposed legal obstacles to unjust proceedings against the bishops

BIBI IOGRAPHY — The best edition is that of P Hinschms, Decretales pseudo-Isidorianae et capitula Angilramni (Leipzig, 1863). In it the authentic texts are printed in two columns, the forgenes across the whole width of the page, an important preface of coxxvii pages contains, besides the class fication of the mss., a profound study of the sources and other questions bearing on the collection. The nationalty and place of composition has been the subject of much discussion. The view that they originated at Rome has long been abandoned. Hinschius and others argue that they were composed in the province of Reims see for instance Hinschins, Preface, p cevin, Tarchi Histoire des sources du droit canonique (1887), Schneider, Jesuit Terres (Adversus Centur, Magdeburg libri quinque, Die Lehre der Kirchenrechtsquellen (1892). The latter afterwards Florence, 1571) provoked a violent rejoinder from the Protestant unchned to place them in the Province of Tours and at Le Mans, a conclusion desended by Simson, Die Entstehung der pseudoindorianuchen Falschungen (1886) and by Fournier. "La Question des fausces décretales" in the Nouvelle Revue hastorique de droit français et etranger (1887 1888) and in the Revne Phistoire e Lourism V (1906 1407) torse de

DECURIO, a Roman office all the used in hree connections () A men be of the sens orial order in the Lauri owns and r provincial towns o gamzed on the Italian mode. The number o d c rio ws was usually 100. The qualifications for the office were fixed in each town by a special law (lex municipalis). Cicero alludes to an age limit, to a property qualification, and to certain conditions of rank. The method of appointment varied. Cicero speaks of the senate in the Simban towns as appointed by a vote of the township But in most towns the chief magistrate drew up a list (album) of the senators every five years. The decuriones ! held office for life. They were convened by the magistrate who i presided as in the Roman Senate Their powers were extensive In all matters the magistrates were obliged to act according to heir direction, and in some towns they heard cases of appeal against judicial sentences passed by the magistrate. By the time of Julius Caesar (45 B C) special privileges were conferred on the decuriones, including the right to appeal to Rome for trial in criminal cases. Under the principate their status underwent a marked decline. The office was no longer coveted and means were devised to compel members of the towns to undertake it By the time of the jurists it had become hereditary and compulsory This change was largely due to the heavy financial burdens which the Roman Government laid on the municipal senates

(2) The president of a decuria, a subdivision of the curia, $(q \circ)$

(3) An officer in the Roman cavalry, commanding a troop of ten men (decursa)

BIBLIOGRAPHY—W Liebenam, Stadteverwaltung im romuchen Kusserreiche (1900), Pauly-Wissowa, Realemyklopadie (1901), A H J Greenidge. Roman Public Life (1901); J E Sandys, Companion to Latin Studies (1921), with useful bibliography; W. E. Heitland, The Roman Republic (1923)

DÉDÉAGATCH, officially known as Alexandroupolis, a seaport of Western Thrace in the Hebros province, to m NW. of the Maritsa estuary, on the Gulf of Enos, an inlet of the Aegean sea Pop about 3,000 Greeks and Armenians A monastic community of Dervishes of the Dede sect, which was established here in the 15th century, shortly after the Turkish conquest, gave to the place its name. Until 1871 Dedéagatch was a mere cluster of fishermen's huts. Then settlers actracted by the possibilities of trade in the products of the valonia oak forest nearby gathered here. In 1884 it was made a sanjak. In 1889 the Greek archbishopme of Enos was transferred to Dédéagatch On the opening, in 1896, of the Constantinople-Salonica railway, a large proportion of the transit trade which Enos, situated at the mouth of the Maritza, had acquired, was diverted to Dédeagatch, and an era of unprecedented prosperity began, but when the railway connecting Burgas on the Black sea with the interior was opened, in 1898, Dédéagarch lost all it had won from Enos. Owing to the lack of shelter in its open roadstead, the port has not become the great commercial centre which its position otherwise qualifies it to be. It is, however, one of the chief outlets for the grain trade of the Adrianople, Demotica and Xanthi districts. In the Balkan War of 1913 the town was occupied for a time by Greeks but later banded to Bulgaria. In 1915 when Bulgaria annexed the coastal plains from the Maritsa to the Struma, Dédéagatch became permanently Bulgarian until 1918. After the collapse of Bulgarian opposition in 1918 the town was used for the concentration of British troops against the Turkish frontier When the Peace Treaty drew the Bulgarian frontier along the mountains north of the coastal plains Dédéagatch fell to Greece After the treaty of Lausanne the Greek frontier was withdrawn from the Chatalja unes to the Maritsa river Dédéagatch became a frontier town and Enos fell to Turkey.

See Admiralty Handbook of Macedonia, pp 463-464 (1920); Survey of International Affairs, 1920-23, pp 338-340 (1925)

DEDEKIND, JULIUS WILHELM RICHARD (1831-1916), German mathematician. was born at Brunswick on Oct. 6. 1831 He studied at Gottingen, where he obtained his doctorate in 1852 After holding various minor posts he became protessor of mathematics at the Technische Hochschule at Brunswick in 1894 He died at Brunswick on Feb 12, 1916 Dedekind's most important work. Stetigkeit und vrationale Zahlen (1872), deals with

he hear o den numbers. He was a preface to the collected or a number of Remann (1876), and edited Dirichlet's researches on the theory of numbers. The later editions of this work have an appendix containing Dedexind's own work on ideal primes. He was also the author of a memoir on the vibrations of a liquid ellipsoid.

DEDHAM, a town of Massachusetts U.S.A., on the Charles river, from S.W. of Boston, the county seat of Norfolk county. It is served by the New York. New Haven and Hartford railroad. The population was 10.792 in 1920 (26% foreign-born white) and 13.918 in 1925. The principal manufactures are woollens, carpets and pottery (a variety of true crackleware). Dedham was one of the first two inland settlements of the colony, "planted" in 1635 and incorporated in 1636. A free public school, supported by direct taxation, was established in 1645.

DEDICATION, the setting apart of anything for a special object: especially the consecration of altars, temples and churches, also the inscription prefixed to a book etc and addressed to some particular person, formerly designed to gain the patronage of the person addressed. In law, the setting apart by a private owner of a road to public use. (See Highway)

The Jewish Feast of Dedication was observed for eight days from the 25th of Kislev (1e, about Dec 12), to commemorate the purging (164 BC.) of the temple after its desecration by Antiochus Epiphanes See i Macc 1 20-64, iv 36-59, 2 Macc i 9 18, ii 16, v 15-16 vi 1-11, John x 22; also Josephus Antiq, vii 6-7 xii. v 4 (where it is called the Feast of Lights)

Dedication of Churches.—The custom of solemnly dedicating buildings set apart for Christian worship must be almost as old as Christianity itself. Before the reign of Constantine Christian churches were few and any public dedication of them would have been dangerous in those days of persecution. But from the early 4th century allusions to and descriptions of the consecration of churches become plentiful

Like so much else in the worship and ritual of the Christian Church, this service is probably of Jewish origin. The hallowing of the tabernacle and its ornaments (Exod xl), the dedication of the temples of Solomon and Zerubbabel (1 Ki. vii. Ezra vi.), the rededication of the latter by Judas Maccabaeus (see above), the dedication of Herod's temple (Josephus, Antiq. xv xi 6) and our Lord's recognition of the Feast of Dedication (John x 22, 23)—all support this hypothesis

Eusebius (Hist. Eccles, x 3-4) speaks of the dedication of churches rebuilt after the Diocletian persecution including that of the church at Tyre in A.D. 314-315. The consecrations of the church of the Holy Sepulchre built by Constantine at Jerusalem (A.D. 335), and of other churches after his time are described by Eusebius and other ecclesiastical historians. From them we gather that every consecration was accompanied by a celebration of the Holy Eucharist, a sermon, and special dedicatory prayers St. Ambrose and other writers mention also the deposition of relics, and a vigil overnight, and there are occasional references to the tracing of the Greek and Latin alphabets on the pavement of the church

The separate consecration of altars, by sacerdotal blessing and unction with chrism, is prescribed in canons of the councils of Agde (506) and Epaone (517) St Columbanus (d 615) is said to have also used holy water (Walafrid Strabo, Vita S Galli, cap 6) At an early date the right to consecrate churches was reserved to bishops, as by the council of Braga in 563 and in the 8th century Irish collection of canons known as 'Synodus Patritii ' Accordingly, it is in the pontifical that we find the fully developed consecration service. This occurs in a form closely resembling that now used in ms pontificals of the roth century, one of which, believed to be a copy of that of Egbert. archbishop of York (732-766), was printed in 1853 by the Surtees Society Some idea of the general character of the service may be obtained from the following outline of it as performed in England before the Reformation, according to the use of Sarum (printed by W Maskell. Monumenta ritualiu ecclesiae Anglicance, and ed., vol i pp 195-239, from an early 15th century ponufical).

There is a goan har in his day of intercration the such parents as a test going of the day of intercration the such parents as a test going of the church פשפשול שישון לות לו הולם שוני בנובת קומם יוטי אל ולפו פיני הטענו have not to the lighted condition which record in its de and swelve gus le thu charch. Hu sprackles the cause are round outside, and known is the and there we altern are replaced twice and . would the chief knowing on enters it, church with his altendant eforms all many being one adel. He han fives a cross in the centre of the church and the litting is sould not affect a special peation for the care rather of aband on bath. He had recorded the Green and I will apphabels in force at a St. Andrew's cross or its pavers at sundered for the purposes thisses whier mingled with six solies and who and somewhere these the wash made the thurch, hen the terms of the thurch longwise and crosswise on the patement and then sees round the outside of the church spanishing it thrice. Returning to the centre of the courch be springles body water to the four points of the compass and roward the roof. Next he arounts with chrism the twelve internal and twelve external rull-crosses, afterwards percurbulating the church thrice isside and ourside considers

Consecration of Altar.—Then follows the consecration of the outar. Holy water is mixed with carism, and with the mixture the altar-table is washed, consociand wiped. A cross is made with oil of carechumens in the centre of the altar, the after-store is anorated with chrism and the whole after is rubbed with oil of catechamens and with chasm. Incerse is blessed and the alter censed the grains of incense being placed crosswise in the centre and corners and or the grains five sleader candle-crosses which are in Afterwards the altar is scraped and cleansed; the altar-1 cloths and ornaments are sprinkled with holy water and placed on the attar, which is then censed. The service ends with the celebration of mass. The various collects, psalms anthems, benedictions etc., have been omitted for the sake of brevity.

The Sarum rate described above is substantially identical with that of Rome; but the latter contains in addition one important feature, viz. the translation of relics, found also in the Galtican and other uses. After the sprinkling of the church, the bishop prepares rement at the altar. He then goes to the place (purside the church) where the relics have been placed overnight and carries them in solumn procession to the church door, where he addresses he people and the founder, and two decrees of the council of Trent are read, together with the deed of foundation. Then the hishop anointing the door with chrism, enters the church with the relics and deposits them in the cavity on the alter, censes and covers them, and anoints the cover. The altar is then censed and wiped, as in the Sarum order.

This use of relus goes back to the time of St. Ambrose (see above), but was not universal. The council of Cealchythe (Cheisea) in 816 ordered that part of the consecrated Host should be enclosed if relics were not obtainable. The tracing of the Greek and Latin alphabets on the church floor can be traced hack certainly to the beginning of the 10th century, and is doubtless earlier. Its origin and precise meaning are unknown, but various explanations have been suggested by Rossi and others The annual commemoration of the dedication of a church is probably as old a custom as that of dedication itself. In the Romes Cathelic Church it is observed as a double feast of the first class with octave.

The dedication service of the Eastern Church is long and elaborate (see J. M. Nesle, Hist. of the Holy Eastern Church, part ii., 1850, pp. 1042-45). Relics are prepared and guarded consider to a neighboring secret church. On the day, the show for the little to the case of the sense organs. The temperature of the worm the comes of the case of the case

warnes the after with warm water and with wine and makecrosses on it with obrism. The allar is vested and the service ends with the littery, which is repeated daily for seven days,

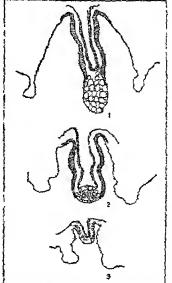
There is no authorized form for the dedication of a church in the referred Church of England. A form was approved by the convocation of Canterbury in 1712, and an almost identical term was submitted in 1715 but neither form ever received royal sanction. Anglican bishops have however drawn up forms for use in their various dioceses. In the diocese of London for in stance, the hishop attended by clergy and churchwardens, rereives cutside the west door a petition for consecration; the prore-sion then moves round the whole church outside, while certain psalms are chinted. On again reaching the west door the mshop is admitted after knocking thrice and advances to the ent end of the church. He there lays the keys on the table which is to be hallowed. The Veni Creator is sung followed by the litary with special suffrages. The bishop then blesses the fort chancel, lectern, pulpit, stalls and holy table. The deed of consecration is read and signed and Holy Communion is celebrated The Church of Ireland and the episcopal Cnurch of Scotland have no fully authorized form of dedication, but various forms have been issued on episcopal authority.

DEDIFFERENTIATION, a biological term meaning the tashop makes seven crosses on the alist. The altar is sprinkled, reverse of differentiation, i.e. for processes which lead to organsetun times or thrice with water not mixed with chrism, and the term or their parts reverting to greater simplicity, the term reduction has also been employed, but is unsatisfactory as it is in deniand for chromosome-reduction. (See Cytology) Dedifferentiation in its strict sense should not be applied to simple cases of degeneration, but in practice it is often impossible to draw the line.

Decifierentiation in many Protozoa (q.v.) may be a regular and physiclogical phenomenon When Protozoa with complicated structure, such as many Cultates reproduce by simple fission, many

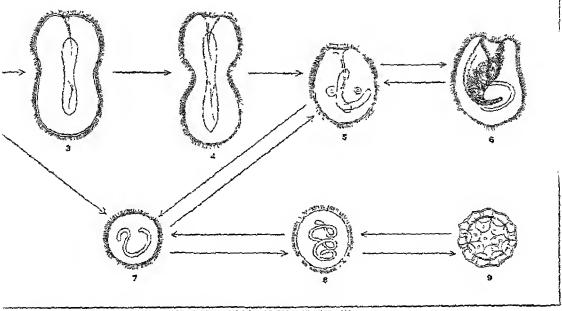
of the old structures dedifferentrate, the daughter-cells acquiring new organs of the same kind by rew differentiation. In Bursavia Lund has shown that, in addition, damage or unfavourable condrions will cause the whole animai to revert to a sphere without any trace of normal differentiation. Redifferentiation to the normal form may occur from this state or from any stage in the process. Similar total dedifferentiation occurs in the encystment of Bursum and many other umcellular forms

Starvation is a frequent cause of dedifferentiation. The common Hydra, by this and other means, may be made to lose all its tentacles, and eventually revert to a mere spheroid with no mouth, and similar phenomena have been described in seaanemones. The common jellyfish Aurelia, kept without food, shrinks enormously in bulk, some parts, e.g., the gelatinous bell, being much more reduced than



THOM OF BEER, "AN INTRODUCTION TO EX-PERIMENTAL EMBRYOLOGY" (CLARENDON PRESS) FIG 1 -STAGES IN THE DEDIFFER. ENTIATION OF THE TENTACULOGYST OF AURELIA BY STARVATION (I) Normal tentaculocyst Slightly dedifferentiated (3) Dealf-ferentiated to a small knob without the characteristic structure

others like the mouth-tentacles; specialized tissues lose their bistological differentiation, e.g., the genital organs and the special sense-organs, the tentaculocysis. In the worm Ophryotrocha,



TONY AND BIOLOGY, FROM LUND, "REYERS. B. LITT OF MORPHOGENETIC PROCESSES IN BUREAF'A"

-diagram illustrating reversibility of developmental processes in bursaria

(4) Dedifferentiation preparatory to division. (5) and (6) A product of division, redifferentiating. (1) (2) and (7).

e as reaction to unfavourable conditions. (8) and (9) Formation of resting-stage (cyst). The arrows indicate the s may be taken. Many steps are reversible

the salmon's sexual organs grow [in fresh water, though it takes no is time The necessary material is tion and later degeneration of the -muscles of the queen ant are so eaks off her wings after the nuptial

flight, they dedifferentiate, eventually becoming converted into food-material.

Dedifferentiation is often complicated by resorption. When the process has reached a certain stage, many kinds of cell migrate out of the tissues. In higher forms with massive tissues this is not possible, and resorption is usually effected by phagocytes devouring the dedifferentiating cells. This is so in the tail-resorption of metamorphosing tadpoles; the tissues begin to dedifferentiate, but are subsequently attacked by phagocytes.

In lower types, the fate of dedifferentiating organs is largely determined by the space available to the emigrating cells, e.g., of in colonial Hydroids, such as favourable conditions, the polyps start to dedifferentiate as does if the less susceptible stalk are availit of the tissues, and accordingly the sed into the stem. The same is true ra In both cases the amount of stalk 1 individual (zooid) determines the of stalk is relatively large, total rete result is a dedifferentiated zooid g point has been elicited by Child. its such as weak alcohol to pieces rpha) he obtained dedifferentiation ration of the original polarity, On regeneration took place, but at right

rould have taken if no dedifferen-

tiation had occurred.

The Ascidians are the most highly organized animals in which total dedifferentiation is possible. This has been best worked out in Clavellina Halved animals may, in the midst of normal regeneration, dedifferentiate to a small opaque spheroid, from which later a whole organism may arise. Intact whole animals, if small, may also dedifferentiate thus Dedifferentiation may be induced by leaving in unchanged water, redifferentiation by change of water. Two successive dedifferentiations, each followed by redifferentiation have been obtained in a single animal, though de-

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-DEDIFFERENTIATION AND RESORPTION IN OBELIA

(I) to (5) When a section of stem is left attached to the polyp. (1) Normal polyp. (2) Dedifferentiation begins, and cells start migrating into the digestive cavity. (3) Mouth the digestive cavity. (3) Mouth closed, tentacles resorbed to knob. (4) and (5) Total resorption of tentacles and shrinkege of the polyp. (6) No stem is left attached to the polyp. Dedifferentiation alone occurs

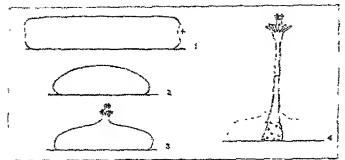
prived of food throughout. The internal organs become greatly simplified, and different parts are affected at a very different rate: the cells revert to an em bryonic type. Recovery is not possible from the most extreme stages, but at all earlier stages the process is reversible.

Schultz has attempted to show that dedifferentiation is a true reversal of normal development, but later work shows that this view is untenable. The struc tural changes seen are mainly due to the cells reverting to the "embryonic" type, roughly cubica when in epithelia, spherical when isolated. This, however, is not due to any mysterious force compelling return to the embry onic type because it is embry onic, but because this type ha. the least amount of surface rela tive to volume, to maintain any

other form demands a continual performance of work against the forces of surface-tension, which is beyond the powers of cells ex posed to other unfavourable conditions. The picture is complicated by two other factors-first, the facility with which different kinds of cells migrate out of their tissues; secondly, the different resistance of cells, leading to the least resistant breaking down and becoming food-material for the others.

Behaviour which may perhaps be metaded under dedifferen tistion is that of (e.g.) certain Planarian flat

This cannot recoming a compressfully simpler state but be-not enjour away for the National As Child source district names for the a most respect the properties of new Hire the fe-The this make the continue to the state of the ermoner of resortes no sho allered sociacides ume relations. which the title in rige automatically.
There are definitered as readly in unitability con-



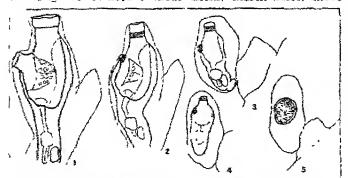
PROM CHILD "PHYSIDEMS DAM FOLHERS SHE OF BUHADION

Fig 5 -- Desifferentiation in Coryhorpha followed by Ardiffer-ENTIATION WITH NEW POLARITY

1) A proce of cut stem, — is 're and nearest to the polyn '2) The same, after desifferentiation in dische alcohol — sea-water (3) and (4) When epiaced in pure sca-water ridifferentiation occurs but the new stem axis is at montangles to the old the polynomial ormed where crygen is mest abundari

Arions resorbing arms and skeleton and eventually becoming nature and dedirentiation of larval tissues followed by their resortion into the adult midmetamorphosis (g v j

A striking type of dedifferentiation is that of tumour ussue. mabgrant and otherwise. When a tumour is formed the cells or the tusae from which it arises lose some of their differentiation Roughly speaking, the greater the malignancy, the more complete the dedifferentiation (See Cancer) This type of dedifferentiation apparently differs importantly from that hitherto discussed for tumour-cells are characterized by undue activity and multiplicative power, whereas in the other type activity a ceduced and multiplication, if present stopped. Possibly the existence of histological differentiation is only possible at a not too high level of metabolic activity, and relatively such stable scaffoldings as connective tissue fibrils, muscle-fibres, nerve-



THEM HUNLEY "STUDIES IN DEDIFFERENT ATTO Y"

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FIG 6 - REDUCTION PHENOMENA IN THE ASCIDIAN CLAVELLINA (1) Upper part of nermal specimen, showing heart (below to right), guilet, stomant, and rectum (below to left), with above, large pharyrx opening by under specture of strium opening by aparture to left). The small circles are glidelist leading from otherwine to attrum. (2) to (5) stages in dedifferentiation of the same specimen, to scare

fibrits, etc. are only constructed and maintained when the cell's activities are keyed at a certain plich, and are broken down when they are higher, just as, to use a rough analogy, sandbanks are only hid down in a river when us rate of flow is suitable and size destroyed if its speed increases. On the principle of the struggle of the parts, it would be expected further that if cellmetabolism were altered so as to encourage cell reproduction, less food-material would be available for -अंत्रस्तास्त्रं के

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dire.

these They do not in any case cover an use facshown to be sometimes caused by from arother kind of tissue eg. carrivated alone in armficial medcens duafferentiate entirely; but wh the cutule-cells differentiate to form

In any event it is a well-establish plication is incompatible with the n we may accordingly correlate the d with this fact and conclude that it dediterentiation correlated with le

Decinierentiation associated with is also seen in regeneration. In mai I served at the cut surface after would tion of cells to form a so-called regeneration blastema, consisting i of cells dedifferentiated as far as I visible characteristics go That i they are also dedifferentiated in other respects is shown by the interesting results obtained in newts where grafting of a young regeneration blastema eg, of a umb to some other region, eg, the newly-cut stump of the tail will cause the blastema to complete the organ on to which it is granted instead of that by which it was first regenerated (See REgeneration, Grafting in Ani-MALS)

It will be seen that several diverse processes are at present lumped together under the head of dedifferentiation. Not only is the dedifferentiation correlated with increased multiplicative activity to be sharply distinguished Fi from that correlated with de- ci pression of activity but among in depressant agencies starvation, at de least in moderate degree, proba- ot bly has a different, less pathologi chemically unfavourable conditions made between reversible dedifferenti versible and therefore leads to deg dedifferentiation, if long continued o ible) In reversible cases, investiga the dedifferentiated cells themselves zoa, and undoubtedly in some Metaz of Clavellina's dedifferentiation), or redifferentiation occurs from undiffe vestigation is also needed with ret capacity for tissues to transform from another While this undoubtedly oc to the power of a tissue to pass fro differentiation, as when non-cornified into comified under abnormal stimul a new direction after passing throug which cell-multiplication has taken example from regeneration solve several of these problems

See also Regeneration Grapting SUE-CULTURE

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DE DONIS CONDITIONAL **DEDUCTION**, a term used u of taking away from or subt and peca v or the argum ntat e proces o arr ing at a or ca on rome dence ie o an kind of in erence (from Lat ced e e to take o lead from o out o der e. Two forms of the verb are used "deduce' and deduct' originally synonymous, they are now distinguished, "deduce" being confined to arguments, "deduct' to quantities. In this sense it includes both arguments from particular facts and those from general laws to particular cases. In logic it is generally used in contradiction to induction for a kind of mediate inference in which a conclusion (often itself called the deduction) is regarded as following necessarily under certain fixed laws from premises. This, the most common form of deduction, is the syllogism (qv; see also Logic), which consists in taking a general principle and deriving from it facts which are necessarily involved in it. This use of deduction is of comparatively modern origin, it was originally used as the equivalent of Aristotle's ἀπαγωγή (see Prior Analytics, B xxv) The modern use of deduction is practically identical with the Aristotelian συλλογισμός Logical usage is somewhat inconsistent. On the one hand, Deduction is said to be from a universal premise; on the other hand, even syllogisms consisting of singular propositions only are described as deductive. To secure consistent usage it is best to apply the term deduction to all inferences from a universal proposition (even to immediate inferences of a singular or particular proposition from a universal) and to no other inference (such as singular syllogisms). Another source of confusion lies in the fact that in Mathematics the term deduction is sometimes used as synonymous with Analysis Descartes' "deductive method" is often misunderstood for this reason as it covers both deduction proper and this analytic method

DEE, JOHN (1527–1608), English mathematician and astrologer, was born in London, and educated at St John's college Cambridge, becoming a fellow of Trinity. He spent two years at Louvain and at Rheims in study and lecturing, returning to England in 1551, when he received a pension from Edward VI which he exchanged for the living of Upton-on-Severn Soon after Mary's accession he was imprisoned on a charge of using enchantments against the queen's life, but was released in 1555. Dee enjoyed the tayour of Queen Elizabeth. He was asked to name a propitious day for the coronation, gave lessons to the queen in the mystical interpretation of his writings was sent abroad in 1578 to consult with German physicians and astrologers on the nature of her illness, and was employed by her in establishing the claim of the Crown to the overseas countries discovered by British subjects In 1581 began his collaboration with Edward Kelly, who professed to have discovered the philosopher's stone and to be able to raise spirits. The two spent the years 1583-89 in Poland and Bohemia under the patronage of Albert Laski, palatine of Stradez. Dee returned to England in 1589. He was helped over his financial difficulties by the queen and his friends. In May 1595 he became warden of Manchester college. In Nov. 1604 he returned to Mortlake, where he died in Dec 1608, at the age of 81. in the greatest poverty Dee's Speculum or mirror, a piece of solid pink-tinted glass about the size of an orange, is preserved in the British Museum

His principal works are Propaedeumata aphoristica (1558), Monas hieroglyphica (Antwerp, 1564); Epistola ad Fredericum Commandinum (Pesaro, 1570), Preface Mathematical to the English Euclid (1570), Divers Annotations and Inventions added after the tenth book of English Euclid (1570), Epistola praefixa Ephemeridibus Joannis Feldi, a 1557, Parallaticae commentations praxeosque nucleus quidam (1573).

The catalogue of Dee's printed and published works is to be found in his Compendious Reheared, as well as in his letter to Archbishop Whitgift The Private Diary of Dr John Dee, and the Catalogue of his Library of Manuscripts, edited by J O Halliwell, was published by the Camden Society in 1842 There is a life of Dee in Thomas Smith's Vilae illustrium virorum (1°07) Eng trans by W A. Avton the Life of John Dee (900) M. R. J Lists of Manuscripts Formerly owned by D John Dee, Bibliog So Trans Sup no L (92)

De a pring on Ben Brae ach on of the Campo mat a heigh of of it. What is ributaries heir eridrans an area of 1 ooo sqim. Rapid and turbulent during the first halt of its coule of 90 m, it broadens below Aboyne and the rate of flow is diminished. The channel towards its mouth was artificially altered in order to provide increased dock accommodation at Aberdeen, but, above the stream is navigable only for barges and small craft for a few miles. It runs through beautiful scenery especially in Braemar About two miles above Inverey it enters a narrow rocky gorge 300 yd long and only a few feet wide at one part, and forms the rapids and cascades of the famous Linn of Dee. One of the finest of Scottish salmon streams, it retains its purity almost throughout. The principal places on the Dee are Castleton of Braemar, Ballater, Aboyne, Kincardine O Neil, Banchory, Culter and Cuits.

DEE, a river of Wales and England It rises in Bala Lake Merionethshire Leaving the lake near Bala, it flows north-east to Corwen and turns east past Llangollen to near Overton and then bends nearly north to Chester, and thereafter north-west through a great estuary into the Irish Sea. In the Llangollen district the Dee crosses Dennighshire, and thereafter forms the boundary of that county with Shropshire a detached part of Flint and Cheshire From Bala to Overton (35 m), the river falls about 330 ft, and its course hes through a narrow, beautiful valley, en closed on the south by the steep slopes of the Berwyn Mountains and on the north by a succession of lesser ranges. The Vale of Llangollen is especially famous. Here an aqueduct of the Shrop shire Union canal bestrides the valley, it is a remarkable engineer ing work completed by Thomas Telford in 1805. The Dee has a total length of about 70 m. and a fall of 530 ft. Below Overton it debouches upon its plain track Below Chester it follows a straight artificial channel to the estuary, and this is the only navigable por tion. The estuary, which is 14 m. long, and 5\frac{1}{2} m wide at its mouth, between Hilbre Point and Point of Air, is not a commercial highway like the Mersey, for at low tide it becomes a vast expanse of sand, through which the river meanders in a narrow channel The tide rushes in with great speed over the sands, and their danger is illustrated in the well-known ballad "The Sands of Dee" by Charles Kingsley The Dee drams an area of 813 sq m.

DEED, in law, a contract in writing, sealed and delivered by the party bound to the party intended to benefit Contracts or obligations under seal are called in English law specializes, and down to 1869 they took precedence in payment over simple contracts, whether written or not Writing, sealing and delivery are all essential to a deed. The signature of the party charged is not material, and the deed is not void for want of a date. Delivery it is held, may be complete without the actual handing over of the deed, it is sufficient if the act of sealing were accompanied by words or acts signifying that the deed was intended to be presently binding, and delivery to a third person for the use of the party benefited will be sufficient. On the other hand, the deed may be handed over conditionally as an escrow, in which case it will not take effect as a deed until the conditions are performed A deed indented, or indenture (so called because written in counterparts on the same sheet of parchment, separated by cutting a wavy line between them so as to be identified by fitting the parts together), is between two or more parties who contract mutually. The actual indentation is not now necessary to an indenture. The deed-poll (with a polled or smooth-cut edge, not indented) is a deed in which one party binds himself without expression of any obligations undertaken by another party. (See Contract)

Statutes have been enacted in many of the United States, as in Great Britain and her colonies, setting forth certain short and convenient forms for deeds thus giving effect to statutory provisions and forms. In the United States a deed has the effect of feofiment with livery of provisions and forms. In the United States a deed under the statute of uses or of any species of conveyance to effect the untent of the parties and not reput to the legal requents

DEED REGISTRATION See TITLE TO LAND

In 1941 Whate glot of in American Dib's Society in North Cround. He talght at the University of North Lincolna and at Europe He talght at the University of North Lincolna and at Europe Helden (2) to the four years (1850–54, president of the American (2) the theoretical in 1865 he fourded in New York his the transferm churches. In 1865 he fourded in New York his the unappendiction of Church of the Strongers where he remained the his day of the Christians for of the purishioness, he compiled Against for All Christians for the 1800 was the author of many books. For ter years we often Constant Things's organ of the American Institute at Christian Philosophy of which he was one of the founders and prosident and through which the Charles F. Deems lecture in man passessophy was established in New York university.

Ce the moment 135-1 in part autebourneby in part the work of the sons, and the memoric number of Christian Thought (Feb 1894)

DEEMSTER or DOOMSTER, the former title of an officer attached to the High Court of Justice in Scotland who pronounced the doom or sintence on condemned persons. Mention of this office is made in the Doomsday Book. Deemster is the title proper to each of the two justices of the Isle of Man.

DEER, originally the name of one of two British species, the red-ceer or the fallow deer but now extended to all the family Cervidae (see Fecora, Aptindactyla, Undulata) Briefly, deer may be defined as Pecora in which antiers are usually present in the male, when no antiers are developed, the upper canine teeth are clongated and sabre-like. The antiers arise from pedicles or pony projections of the frontal bone; when a new antier is to be formed the summits of these pedicles become highly vascular nd from the blood thus supplied a bony secretion is deposited During its growth the antier is covered with soft, hairy skin, through which run a number of blood-vessels, this skin is known as the vervet. Towards the completion of the antier's growth a more or less prominent ring of bone, the burn or coronet, is deposited at its base just above the junction with the pedicle, this ends to construct the blood-vessels, and thus cut off the supply of blood from the antlers. When the antlers are freed from the velvet-a process usually assisted by the animal rubbing them crainst trees—they have a more or less rugose surface, owing to the grooves formed in them by the nutrient blood-vessels. In the antlers of the red-deer group which form the type of the whole series, the following names have been applied to their different component parts and branches The main shaft is termed the beam; the first or lowest time the brow-time; the second the bez-tine, the third the trez-tine or royal; and the branched summent the crown, or surroyals

The Cervidae are distributed all over Europe Asia, northern Africa and America, but are unknown in Africa south of the Sabara. They are essentially woodland animals and where forced to dwell in open country, as in the highlands of Scotland, become stunted. Thus the prehistoric remains found in the Scotlish peat-bogs indicate that a moderate sized, old time red deer (Cervus elaphus), which was a forest dweller, was a third as large again as well-grown modern forms. That this is not due to deterioration of the stock, but primarily to the conditions of the experiment, is shown by the fact that the descendants of Scotlish deer introduced into New Zealand are amongst the largest specimens known.

The existing members of the family are arranged in two subfamilies, the Moschinae containing only 2 single species, the musk deer, and the Cervinae, including not only the true deer but the mentjaks, roe deer, mule deer, etc

The subjamily Moschinae is distinguished by the presence of a gall-bladder and, in the males, a large caudal gland, and by the absence of subjects, lace-glands and foot-glands. The hemispheres of the brein are comparatively smooth, with few convolutions. The subspecies are distributed over a large part of central and hards-castern Asia from Gilgit southwards to Cochin China, and testwards to Korea. The musk deer or kastura (Moschus moschi-fewa) stands about 20 in, at the shoulder, with the hind-quarters element for the Robert subspecies is smaller and more slenderly be in the Robert and war are empling pith; the general that it is a subspecies and the ears are large and

The state of the s

the upper canine teeth of the males greatly enlarged projecting well beyond the no margin. The tail is very short and the naked area of the mazzle is extensive. Musk deer are forest dwelling animals, usually found at considerable elevations; the males secrete the musk," from which the animal derives its name, in an andominal gland. The record specimen carries canine teeth which project out beyond the jaw-bone for a distance of $3\frac{\pi}{16}$ in; these weapons appear to be chiefly used for fighting, the bucks engaging in severe compats during the pairing-season

The Cervinac have no gall blander or caudal gland, but there are foot-glands at least in the hind-limbs (absent in Pudu) antiers are as a rule, developed and are characteristic of all true deer The cerebra, hemispheres present numerous convolutions It is an interesting point that the ratio between body-weight and autler-weight increases with the absolute size of the animal Thus in the red deer (Cervus elaphus), it was found that in stags of mean weight 744 kg the antler-weight was 22% of the total in stags of mean weight 1306 kg. it was 303% and in those of 2118 kg 421%, a point of great evolutionary significance. The growth of the antlers depends also upon a number of other circumstances, which are favourable or unfavourable to the production of large, heavy antiers. Lime in the soil is very important and the amount of food available, depending on the weather, is also influential. The successive antlers of a stag increase rapidly in weight during the first few years, but after the 11th year, and sometimes before, decrease again ("go back") The percentage increments for the red deer from Warnham Park are —2nd year. 230 6%, 3rd, 72.2%; 4th. 38 6% 5th, 18 1%; 6th, 8 5%; 7th, 5 2% (see J S Huxley, Proc Zool Soc, London, 1926) The antlers are used in fighting other stags and only exceptionally, or as a last resort, for defence, deer trusting rather to their fleetness to escape from an enemy. It is a remarkable fact however, that antier-less stags, which fight with their fore-hooves, seem often to be able to vanquish their antlered rivals Most deer (but not the roe) are polygamous, the males fighting fiercely for possession of the females

The subfamily contains 19 genera which vary in size from the pudu, standing only about $13\frac{1}{2}$ in. in height, to the gigantic moose and elk.

I. Muntiacus.—The members of this genus agree with all the other Cervinae, excepting the reindeer and caribou (Rangifer), in the absence of antlers in the females and the presence of a small, bare muzzle. They are known popularly as muntjaks or bark ing deer and are characterized by the tusk-like development of the upper canine teeth in the males, a feature in which these animals approach the condition found in the musk deer and resembling in this respect the tufted deer (Elaphodus) and the Chinese water deer (Hydropotes) Six species and numerous subspecies have been described, all are small animals, with small and simple antlers consisting of a small brow-tine and a beam, arising from long, bony pedicles which are continued downwards to form prominent ridges on the frontal region of the skull. In the females these pedicles are represented by small, bony prominences surmounted by tufts of hair. The ears are small and the tail long and thin. The various species are distributed over the Indo-Malayan region eastwards as far as Sumatra and Borneo, a number of forms occur in China and one in Formosa; muntjaks do not extend into Japan. The record length of the antlers taken from the burr to the up, is 10% in. The males stand about 20 to 22 in. in height at the shoulder and weigh about 38lb.

II. Elaphodus contains but a single species, E. cephalophus, or Chinese tufted deer, distinguished from the muntjaks by the small size of the antlers and by the supporting pedicles diverging inferiorly. Further, the pedicular ridges on the frontal region are absent. Four races are known all confined to China. In size these deer about equal the larger species of muntjak.

III Dama.—Two species of Dama are now recognised, D. dama and D mesopotamica from Persia, they are popularly known as fallow deer. In this genus, as in all the remaining genera except Hydropotes, the male canine teeth when present, are not tusk-like. The antiers are large and are supported on short pedicles which do not form frontal ridges as in the munitjaks: the bez-

DEER 135

time is normally absent and the bear is placed and be is do id is the milu of Pere Day dis deer, the distributional with while in summer and the height all the shoulder is about 3 ft. Originally the species were restricted to the Mediterranean countries and Persia, the typical species has, however, been introduced into many parts of Europe. The extinct Irish elk (Megaceros) is an allied genus.

IV Axis.-Some authors regard the genera Axis, Hyelaphus, Rusa, Rucervus and Sika as subgenera of Cervus but it seems more convenient to regard them as distinct. The chical or spotted deer (Ass axis) resembles Dama in the coat being sported with white, the antiers are, nowever, very different being long, slender and not palmated. They are three-tined, the brow-tine forming a right angle with the beam. These Indian deer are of medium size standing about 36 in at the shoulder, five antiers measure as much as 39 m. along the outer curve

V. Hyelaphus.—Closely allied to the chital the hog-deer of the genus Hyslaphus are more stocky in build and the horn pedicles longer The auditory bullae are very large and the coat is either spotted in summer or uniformly coloured throughout the year The two species are confined to the Oriental region: H porcinus 14 the best known

VI. Rusa.—This genus includes large, medium-sized and small deer, normally carrying three-tined antlers in which the brow tine forms an acute angle with the beam. The coat is long and shaggy and uniformly coloured in the adults. The species are widely distributed over most of the Oriental region, extending northwards as far as Sze-chuan. Five species are recognized, of which the sambar (R uncolor) is the best-known This species is typically a very massive animal, standing as much as 54 in. at the shoulder, some stags carry exceptionally large antiers (45 to 30 in in length).

VII. Rucervus.—In this genus, the species of which are all large, both the second (bez) and third tine are wanting and the beam divides into four or more branches, the brow time forms either a right angle or continuous curve with the beam. The range includes a large part of south-eastern Asia, extending to the island of Haman. R duvaucelle, the barasingha or swamp-deer (confined to peninsulae India), R schomburgki, Schomburgk's deer, (remarkable for its many-tined antlets) and R. thomin, the thamin (with cylindrical and rugose antlers), which have a long brow-tine forming a continuation of the curve of the beam), are the best known

VIII. Sika.-The sika or Japanese deer of Japan and Manchuna are medium-sized deer related to the true deer but with smaller and simpler antiers; the latter are flattened and usually four-tined The coat is spotted with yellowish-white in summer; there is a white area bordered with black in the caudal region.

IX. Cervus. In this genus, which includes the true deer, the antlers are more complex, usually baving at least five tines. The tail is considerably shorter than in Sika, and the coat-colour uniform in the adult. The following species are here regarded as belonging to the typical genus.—the red deer (C elaphus), wapiti (C canadensis), Yarkand stag (C yarkandensis), shou (C. wallichi), Macneill's deer (C macneilli), hangul (C cashmiriansis) and Thorold's deer (C albirostris) The typical species (C. elaphus) is widely distributed, ranging over the greater part of Europe (excluding the Italian periodula) and extending eastwards to the Caucasus and Caspian provinces of Persia. The largest of these red deer is the maral (C. e. maral) from Persia, the height at the shoulder reaching as much as 42 ft The wapiti (miscalled elk in America) is typically from eastern Canada; but in addition to the New World forms, several local races have been described from central and north-eastern Asia. The wapiti may stand as much as 5 ft, 4 in. at the shoulder and carries very massive antlers. Both red deer and wapiti have been successfully introduced into New Zealand. The shou and the hangul occur in the Himalayan region.

X. Elaphurus is apparently most nearly related to the true deer The antiers divide a short distance above the burr, the front branch curving forwards and again dividing and the single hind branch projecting backwards. Only one species is known, E. Europe.

numerou snags on the hinder edge. The cour is usually spotted range is uncertain, as this deer is known only from a head formerly kept in the gardens of the Summer palace, Pekin, and their descendants, notably at Woburn abbey, England.

XI. Odocoileus includes the white-tailed deer (O. virginianus), male deer (O. hemionus) and black-tailed deer (O. columbianus) In this genus and those following unlike Dama, Cerrus, etc., the tateral metacarpals are represented by their lower, and not their upper extremities. The autlers are large and the deam dichotomously forked a subbasal snag is developed. The deer included in this group are exclusively American, the range extending from Alaska to Peru, Bouvia and northern Brazil. A large number of local races of the white-tailed deer have been described, from both North and South America. The mule deer and black-tailed deer are found only in North America

XII Blastocerus.—Closely alled to the foregoing but without metatarsal gland. The antiers are large, complex and lack the sub-basal snag of Odocorleus. Two species are known —B. dichocomus, the marsh deer, and the smaller B. besoarticus, the Pampas deer, both South American The former species is the largest South American deer, nearly equalling the rad deer B. besoarticus is a little larger than a roe deer

XIII Hippocamelus is distinguished by the small, simple dichotomously forked antlers, of which the front prong is the shorter, and absence of metatarsal glands. Two species occur, both in South America.

XIV. Mazama.—The deer of this genus are all small species allied to Hippocamelus, but distinguished by their antiers being unbranched spikes A large number of species and subspecies have been named, distributed throughout central and tropical South America, but the distinguishing characters are in many instances only very slight. The typical brocket (M. americana) is about 27 in in height at the shoulder and the coat is bright rufous in colour. Some species are considerably smaller, notably M nana from the Matto Grosso.

XV. Pudu.-This group contains two very small species, standing only 131 to 15 in. at the shoulder, with very small spake-like horns, both from South America

XVI. Capreolus.—This genus, comprising the roe deer is distinguished by the antiers arising almost vertically from the head; the beam divides into two upright branches, the hinder one of which again divides. It includes three species, varying in height from 26 (typical ros) to 34 in. (C. pygorgus); they range over central southern Europe across Asia north of the Himalayas to the Pacific coast. The roe is monogamous. During the rutting period, the stags pursue the does in circles and often several pairs may be seen thus engaged. Although the rut takes place in autumn, the female roe shows no signs of pregnancy until the following spring, and it is suggested that development of the embryo is suspended during the winter.

XVII Alces.-The members of this genus are at once distinguishable by their massive palmated horns, bordered with snags, large size (height at shoulder $5\frac{1}{4}$ to $6\frac{3}{4}$ ft.) and broad, overhavging muzzles. The European elk (A. alces alces) at one time extended throughout the greater part of northern Europe and part of northern Asia, but is now exunct in most parts of Europe the American mouse (A ulces americanus) from eastern North America is the typical moose. During the winter, a herd of moose will often trample down a space in the soft snow ("moose yard") to give them firm footing. The gast of these animals is a currously stiff-legged run, but they nevertheless possess a con-

siderable to referred of it. it is also their ungainty appearance.

XVIII Rangifer. 11 (1) ... ind caribou differ from all the preceding genera in that the female bears antiers and the muzzle is completely hairy. In size medium or large; in some subspecies the antlers are massive and broadly palmated (R. tarandus terraesovae), in others long and slender (R. t. arcticus). The various races range over the northern parts of Europe and North America as far south as northern Columbia and New Branswick. In many parts of its range, Rangefer is migratory and is indispensable as a domestic animal to the Lapps of northern I' Hydropotes e rele e wing a e e e e wing a e e e e wing a e. I for the estimated species it stands only to in a cite the entire for central colour is ruleus much as in the entires and the ruleus is cinined to Chira and Korea

Harryon, his -R livelies change is climated to the Artest and Colddiction, his -R livelies, Doer of A. London 1828. and Coldnicus of the livelies of Moments British Mar 1829. His well as 1822. R. I. tokke, and J. G. Boltman. Come Munich of India 1824. For which there is J. G. Dolman. Roullaid Ward. Recref of the Gome (1912. 2021) S. Harlow Pro- Z. (1. S. L. Ard. 1823.

DEERFIELD, a towe of Franklin courts. Massachusens, . UNS to the Connections and the Departicular trees sam N of Springheld served by the Boston and Mains and the New York. New Haten and Hartford rainay. The requiremen in 1925 was 24%. The greater part of the outputation is control about the. vallage of South Deerheld a supply and shipping point for a large omon and tubecce-growing area. The oldest of the several villages, the Descheld sametimes called 'The Street', extends along one troud theroughtere lived with time through a beautiful valey. bordered by hills on the east and the west. Many or the houses date from the 15th century and the ground is dotted with tablets marking the home lots or early sewiers and places where histeric incidents occurred. In Memorial hall, built in 1798 for the Destueld academy the Pocurrinck Valley Memorial Association has assembled a collection of colonial and Indian relies. In 1896 many of the old household arts and crafts were revived and placed on a business basis by the formation of a society for the marketing of the products. For many years Deerfield (sectled in 1669 and incorporated in 1673) was the tromper post of New England on the north-west. It suffered severely from the Indians in 1675 and 1617; and again on Feb 29, 1704, the village was surprised in the early morning by a force of French and Indians who killed up captured 111 (including the Rev John Williams, who lived to publish an account of his experiences), burned the town and on the way back to Canada kidled 20 of the captives.

DEER PARK, an enclosure of rough wooded pastureland for the accommodation of deer. Originally, the possession of a deer park in England was a royal prerogative and no subject could enclose one without a direct hoence to impark from the crown After the Conquest deer parks increased rapidly in number, but from about the middle of the 16th century they declined, and by Queen Enzabeth's time a considerable proportion of the great estates had passed into the possession of rich merchants who found it more profitable to breed bullocks than deer. This process of decline was hastened by the Civil Wars of the 17th century The largest existing deer park in England is that at Savernake (4,000 acres); next comes Wiedsor, which contains about 2,600 acres in addition to the 1,450 acres of Windsor Forest.

See J Whitaker, A Descriptione List of the Deer Parks of England (1842).

DE FALLA, MANUEL (1876-) Spanish composer. was born at Cadiz on Nov 23, 1876. He studied plano with José Trapó and composition with Felipe Pedrell in Madrid In 1905 he won the prize offered by the Academia de Beilas Artes with his opera La Vida brave Two years later he went to live in Paris. where he met with much help and encouragement from Debussy, Rawl. Dukas and others, who recognized the sincerity of his aims La Vide breve was produced at Nice in 1913 and in Paris the year following. When at last it reached Spain it was received with great enthusiasm; but in view of the tardy recognition of the composer in his own country overtures were made to him to become a naturalised Frenchman and so improve his chances of being heard in Paris. This he declined to do, and on the outbreak ed the World War in 1914 he went back to Spain, where he made an exhaustive study of Spanish folk-music-in particular of the conts of Andalusia-before settling in his new home in Granada in the suprinces of the Albertan. The traditional music of Spain which are the series of the parties of maphration, containing as it does manufic elements from the church modes introduced by early Christians and Eastern rhythms brought by the Moors De pany's received to be this hald have made him a national composer he to perhat the same of he word. He makes an-

a e of tradition, mode at they stand for although he seneves that the modality of folk-tunes should, and does form the basis of all great music his belief implies not only a complete absergment of the spirit of that modulity but a thorough testing of the materia, in the light of the composer's aesthetic and ethical principles. Asting upon this, he submits his own work to the most searching revision before it is given to the public though fortunately without destroying its effect of sportaneity. He is a firm believer in tonably and in consonent chords having no love of dissonance for its own sake. His best-known work is the brillions second boiles, The Three-cornered Hat, which was firsplayed by the Russian Ballet at the Albambra London in 1919 His first ballet, Love the Magician was performed in Madrid in 1915 Another Gramatic work is Master Peter's Puppet-Show, a scenic version of a chapter from Don Quixore. He also wrote Nights in the Gardens of Spain for plano and orchestra. Concerto for harpsichord (or pf) fi. ob. clar vlin and 'cello, Preces espagnoles for piano and Seven Spanish Folk-Songs

See Manuel de Falla, Minicture Essays (J. & W Chester, Ltd., London); Dictionary of Mod Music & Musicians (London)

DEFAMATION, the publication concerning a person of matter which is untrue and tends to lower him in the estimation of right-thinking men or causes him to be shunned or avoided or exposes him to hatted contempt or ridicule. (See LIBEL AND SLANDER)

DEFAULT, in common law a failure to do some act required by law either as a regular step in procedure or as being a duty imposed. Default in compliance with a statute renders the detaulter liable to action by the person aggreed or to indictment if the matter of command is of public concern, subject in either case to the qualification that the statute may limit the remedy for the default to some particular proceeding specifically indicated, and in some instances, e.g., in the case of local authorities, default in the execution of their public duties is dealt with administratively by a department of the Government, and only in the last resort, if at all, by recourse to judicial tribunals.

DEFEASANCE, in law, an instrument which defeats the force or operation of some other deed or estate

DEFENCE: see PRACTICE AND PROCEDUPE

DEFENCE MECHANISMS, a psychological term, referring to various devices unconsciously adopted by the human mind to escape attack or to avoid unpleasant experience. The same mental mechanisms of defence which are employed by normal minds, appear in extreme form in the mental processes of the insane.

Defence Mechanisms of Normal People.-Whenever a normal person anticipates attack from an antagonist so much stronger than himself that he thinks he will be defeated if the contest ever comes to a decisive issue he immediately tends to act in a way calculated to prevent the conflict from occurring Such responses are termed defensive reactions. They are of two general types anticipatory attack upon the supposed opponent, and precautionary withdrawal from the anticipated danger. Lies told by children to avoid incurring punishment and the displeasure of loved parents exemplify both types of defence mechanisms. Concealment of the child's true actions represents withdrawal from threatened conflict with an antagonist (the parent) who is sure to win if the child tries to contest the case on its merits. The falsely imagined story constitutes an inducement response, wherem the child takes the mitiative in an attempt to gain the approval and favour of the parent, thus preventing anticipated attack Emotional irritability active dislike of superiors and blustering. pompous manners frequently represent aggressive defence mechanisms of normal people. Shyness, seclusiveness, timidity, and sometimes day-dreaming and forgetting the names of real people and things represent the passive type of defensive mechanism.

Defence Mechanisms of Abnormal People.—Whenever a person tries ultimately to comply with some unpleasant emotional situation instead of dominating it, the result is an abnormal state of mind. By permitting the conflicting emotions to remain in consciousness without getting rid of some of harmonizing all, a number of abnormal states may result. The weaker emotion may

De supper ed nto a repressed complex can ro ne per or o emo on ma, organize about itself a separate personality resultcontrollably changing from one personality to another at different times. Many psychiatrists (Hart) attribute somnambulism, obsessions halluculations and delusions to abnormal defence mechanisms similar to dissociation. Symbolization stereotyped actions, rationalization, projection where the patient believes other people are expressing toward him the very emotions from which he is suffering, and insane phantasy are attributed to repression

(W. M M) See Hart, The Psychology of Insunity, 1925, Marston, The Emoisons ot Normal People, 1928

DEFENDANT, in law, a person against whom proceedings are instituted or directed, one who is called upon to answer in legal proceeding (See Practice and Procedure)

DEFENDER OF THE FAITH (Lat Puter Degensor), a title belonging to the sovereign of England in the same way as Christianissimus (Most Christian) belonged to the king of France and Catholicus (Catholic) belongs to the ruler of Spain It seems to have been suggested in 1516, and although certain charters have been appealed to in proof of an earlier use of the utle. it was first conferred by Pope Leo X on Henry VIII The Bull granting the title is dated Oct 11. 1521, and was a reward for the king's treatise against Luther. When Henry broke with the papacy, Pope Paul III deprived him of his designation, but in 1544 the title of "Defender of the Faith' was confirmed to Henry by Parhament, and has since been used by all his successors on the English throne.

DEFERENT, in ancient astronomy, the mean orbit of a planet, which carried the epicycle in which the planet revolved (Lat. deferens, bearing down.)

DEFERRED ANNUITY, a periodic fixed money payment, generally arranged on an annual, semi-annual or quarterly basis, but upon which payments do not begin until the expiration of a certain time or the occurrence of some certain event. It is quite customary for insurance companies to sell deferred annuities whose payments begin when the beneficiary reaches a certain age, often by years or more. The deferred annuity may continue for a stipulated number of years, or for a specified number of payments (a deferred certain annuity), it may be continued for an uncertain period (a deferred contingent annuity); or may be continued during a person's lifetime (a deferred life annuity). (See ALNUITY)

DEFERRED ASSETS, also known as deferred charges to expense, and prepaid expenses, are items of expense which have been paid or for which liability has been assumed, but which are not properly chargeable to the current accounting period The charging of such items to current operating costs is deferred until the period arrives to which they are applicable. The premium. for example, on an insurance policy may be paid one year in advance Obviously, the entire premium is not applicable to the month in which payment is made or obligation assumed but to the 12 months. Thus at the end of an accounting period, only that part of the cost applicable thereto would be charged to expense the remainder is a deferred asset

In addition to unexpired insurance, the other common deferred assets are advertising paid in advance development expense, moving expense and organization expense. With such items as insurance and advertising, the problem of pro-rating costs is relatively simple, with such items as development, moving and organization expenses the problem becomes more involved Organization expense, theoretically, extends over the entire life of the enterprise to which it applies Since there is no way of knowing in advance how long a concern will remain in business some arbitrary basis must be selected for writing off the organization expense. Some organizations spread the cost over a five year period, others over a ten year period or even longer Conservative accounting practice suggests the desirability of writing off such expense as rapidly as the profits of a business will permit

DEFFAND, MARIE ANNE DE VICHY-CHAMpe to m acts o er which he ha ro ontr i be an e he coes not ROND, MARQUISE DI (1697-1780), a celebrated Frenchwoman unde stand hat emot on s ca ng the ac s Gr each conflicting was born at the château of Chamrond near Charolies (department of Saone-et-Loire) of a noble family on Dec 25, 1697 Educated ing in "dissociation of personality, the afflicted individual un- at a convent in Paris, she showed a sceptical and cynical turn of mind, which led the abbess to arrange that Massillon should reason with her, but he accomplished nothing. She was married at 21 to her kinsman Jean Baptiste de la Lande, marquis du Deffand but they were separated as early as 1722. Mme du Deffand, young and beautiful is said by Horace Walpole to have been for a short time the mistress of the regent, the duke of Orleans (Waipone to Gray, Jan 25, 1766) In 1721 began her friendship with Voltaire but their regular correspondence dates only from 1736 She spent much time at Sceaux at the court of the duchesse du Maine, where she formed a close friendship with the president Hénault. In Paris she was in a sense the rival of Mme. Geofirm but the members of her salon were drawn from aristocratic society more than from literary chouss, though Voltaire, Montesquieu Fontenelle and Mme de Staal-Delaunay were among the habitues When Henault introduced D'Alembert Mme du Deffand was at once captivated by him With the encyclopaedists she was never in sympathy, and appears to have to crated them only for his sake. When she lost her sight in 1754 she engaged Mile de Lespinasse to help her in entertaining. This lady's wit and tharm made some of the guests, D Alembert among others, prefer her society to that of Mme du Deffand, and she arranged to receive her friends for an hour before the appearance of her patron. When this state of things was discovered Mile. de Lespinasse was dismissed (1764), but the salon was broken up, for she took with her D'Alembert, Turgot and the literary clique generally. From this time Mme. du Deffand rarely received any literary men The principal friendships of her later years were with the duchesse de Choiseul and with Horace Walpole. Her affection for the latter, which dated from 1765, was the most durable of all her attachments. Under the stress of this tardy passion she developed qualities of style and eloquence of which her earlier writings had given little promise. In the opinion of Samte-Beuve the prose of her letters ranks with that of Voltaire as the best of that classical epoch. Walpole refused at first to acknowledge the closeness of their intimacy from fear of the ridicule attaching to her age, but he paid several visits to Paris expressly for the purpose of enjoying her society. and maintained a close and most interesting correspondence with her for 15 years. She died on Sept 23, 1780 leaving her dog Tonton to the care of Walpole who was also entrusted with her papers. Of her innumerable witty sayings the best known is her remark on the cardinal de Polignac's account of St. Denis's miraculous walk of two miles with his head in his hands, Il n'y a que le premier pas qui coûte

The Correspondance médite of Mme du Desfand with D'Alembert, Hénault, Montesquieu, and others was published in 2 vols (1809) In 1810 Mary Berry edited Letters of the Marquise du Deffand to the Hon. Horace Wulpole, afterwards earl of Oriora, from 1766 to 1780 (4 vols), and gave numerous extracts from Walpole's letters to Mrne du Deffand, since destroyed In 1912 Mrs Pager Toynbee published in 3 vols Lettres de Mme. du Deffand à Horace Walpole, published in 3 vols Leitres de Mme. du Deffand à Horace Walpole, with 18 of the supposedly lost letters from Walpole. Her letters were also edited by M. the Lescure in Correspondance complète de la morquise du Deffand (1865), and by the marquis de Ste Aulaire in Correspondance inedite, etc. (1859 and 1866). See also Sainte-Beuve, Causeries du Landi, vols. 1 and xiv. (1852-62); L. Percy, Le président Hénault et Mme. du Deffand (4th ed., 1893). P. de Ségur, Esquisses et recuts: Mme. du Deffand et so famille (1908).

DEFIANCE, a city of north-western Ohio, USA., at the confluence of the Auglaize and the Tiffin rivers with the Maumee; the county seat of Defiance county It is on Federal highway 24 and several State roads, and is served by the Baltimore and Ohio and the Wabash railways The population was 8.876 in 1920 (94% native white) and was estimated locally at 10 000 in 1928. It is the central market of the Maumee valley a rich dairying and farming region Dairy products, steel barrels and drums, automobile bodies and trucks, cotton gloves and mittens metal and canvas specialties are some of its leading manufactures. It is the seat of Defiance college (Christian), established as a normal school

weich he course Departe on a spec new included in a public must not contain the name of the concept to be defined; if it pure A second for Whomestern was established here by Gen | does no information is given. Such a proposition as 'an architecture of the form vas interporated in dencon is one who performs archidenconal functions" is not a user. If the four our controlly after the opening of the Miami, definition. Concepts cannot be defined by their correlatives. Such Fig. Eve can 1, 1813) was made the county seat in that year, a definition is known as a circulus in definition (5) Obscure end bramer my in idea DEFILE, a mantary expression for a passage, to march must not be in the negative when they can be in the affirmative

resuch unlike troops are compensulted dall at or narrow their ten the Fr. the Contact in a line of by files. The what a certain kind of thing is There is another kind of definiand is usually applied in a runne or garge in a range or hais, according to a restrict of the state of the e ruley be earled a decise. The term is also used to express, with but my special reference is indicary operations a gorge among mountaints. The early to defile is used of troops marching on a called the centre, or as a plane curve produced by moving a narrow treet, or necrowing their front, under all circumstances, point at a constant distance from another point " Many chemical and in this sense is the contrary of "deploy" Defile in the sense of 'pokute" is another form of "defoul"

DE FILIPPI, FILIPPO (1869-). Italian scientist and explorer was born in Turin April o. 1569 After graduating in medicine at the Tarin University, he pecame assistant in the surgical clinic and lecturer in operative surgery in the Univerany of Bologne. He published a number of important papers on physiological and biological chemistry. In 1307 he went with the Dake of the Abruza to Alaska as scientific observer and ascended Mount St East Although he did not accompany the Duke to the Runenzon in Central Africa in 1906. De Flupp: wrote the report of the expedition. In 1909 De Filippi joined the Duke's expedition to the Western Himalaya and Karakoram Mts where a point at 600ft high was reached on a ridge of the Bride Peak close to K2, which established a record of altitude unsurpassed unvi the exploits on Mount Everest (1922 and 1924) He later (1913-14) organized and led an important scientific expedition to the Karakoram range in Central Asia, under the auspices of the Indian and Italian Governments

He published The Ascent of Mount St. Elies, Alaska, by H.R.H. Prince Large Amedeo di Savora, Duke of the Aorusti (1900), Rusenzori (1903). Karakoram and Western Himologia (1909) 2 vol. (1912) and Storia della spedizione scientifica italiana nel Himòlosa, Caracorum e Turchestan Cinese, 1913-1914 (1924) **DEFINITION**, a logical term used popularly for the process

of explaining or giving the meaning of, a word and also in the concrete for the proposition or statement in which that explanation is expressed (Lat definitio, from de-finite, to set limits to, describe). In logic definition consists in determining the qualities which belong to given concepts or universals; it is not concerned with individuals, which are marked by an infinity of peculiarities, any one or al. of which might be predicated of another individual. Individuals can be defined only in so far as they belong to a single kind. According to Aristotle, definition is the statement of the essence of a concept, that is, it consists of the genus and the differentia. In other words, "man" is defined as "animal" and 'retional," or 'rational azimal" i.e., the concept is (1) referred to the next higher genus, and (2) distinguished from other modes in which that genus exists, i.e., from other species. "Rational animal' is thus the predicate of the statement constituting the definition. Sometimes the word "definition" is used to signify merely the predicate. It is sometimes argued that, there being no definition of individuals as such, definition is of names (see J. S. Milk Logic, I viil. 5), not of things: it is generally, however, maintained that definition is of things, regarded as, or in so far as they are, of a kind. Definition of words can be nothing more

than the explanation of terms such as is given in a dictionary The following rules are generally given as governing accurate definition. (1) The definition must be equivalent or commensurate put sing which is defined, it must be applicable to all the indi-putant included in the convert and to noting the. Every man, and noting the is included about Man is is not a distribute of simplifies is producible of animals. (2)

n 1884. The cooling to if the rivers was a minority menting- be per grown at differentiam as we have already seen. These are The ca of the Protest. In 179, Gen Antonia Wayne with a fort the unportant rules. Three miror rules are. (4) The definition

and figurative language must be avoided, and (6) Definitions Definition per genus et discrentiam is a concise description of

tion known as generic definition, which describes how the kind of thing in question can be produced. Some terms can be defined in both ways eg, the term circle may be defined as "a plane curve every point of which is equidistant from a certain point

formulae are really genetic definitions **DEFLATION.** A diminution of the volume of currency, causing a rise in the value of money per unit and a fall in prices Its effect varies with the degree of inflation which preceded it and which it is concerned to reduce For a full discussion see

INFLATION AND DEFLATION, CURRENCY, MONEY **DEFOE, DANIEL** (c 1659-1731), English author, was born in the parish of St Giles Cripplegate London, in the latter part of 1650 or early in 1660 of a Nonconformist family. His father James Foe, was a butcher and a citizen of London Until late in life Daniel signed Defoe or Foe indifferently

Daniel was educated at a famous dissenting academy, Mr Charles Morton's of Stoke Newington, where many of the bestknown Noncomformists of the time were his schoolfellows. He joined Monmouth's rebellion in 1085, and is supposed to have owed his lucky escape from the law to his being a Londoner, and therefore a stranger in the west country. Before his western escapade he had taken up the business of hosiery factor, and had married Mary Tuffley, by whom he had seven children. At the entry of William and Mary into London he is said to have served as a volunteer trooper "gallantly mounted and richly accoutred " At this period he seems to have been a sort of commission merchant, especially in Spanish and Portuguese goods, and at some

time to have visited Spain on business. In 1692 he failed for £17 000. Although his creditors accepted a composition, he afterwards honourably paid them almost in full, a fact attested by not very friendly witnesses. He then became secretary and afterwards manager and chief owner of some tile works at Tilbury, but here also he was unfortunate, and his imprisonment in 1703 brought the works to a standstill, and he lost £3 000. About the middle of the reign of William III, he was introduced to the King and in 1695 he was appointed accountant to the commissioners of the glass duty, an office which he held for four years. At this time he produced his Essay on Projects (1698), containing re markable suggestions, much in advance of his time, on banks, road-management, friendly and insurance societies of various kinds, idiot asylums, bankruptcy, academies, military colleges, high schools for women, etc. In the same year he wrote the first

the Dissenters should not permit them to conform, yet he denounced the impropriety of requiring tests at all. In support of the government he published, in 1698, An Argument for a Standing Army, followed in 1700 by a defence of William's war policy called The Two Great Questions considered, and a set of pamphlets on the partition treaty The True-Born Englishman (1701) is a satire in rough but extremely vigorous verse on the national objection to William as a foreigner, and on the claim of purity of blood for a nation of mixed origin. He also took part in the pro-

ceedings which followed the Kentish petition and was the author

of a long series of ingenious pamphlets on the then burning ques-

tion of occasional conformity. He argued that the conscience of

ter of the Legion Memorial which asserted say the of the electors over the elected. The theory of the the s

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Body of the People of England examined and asserted (1701).

In an evil hour for himself Defoe wrote the anonymous Shortest Way with the Dissenters (1702), a statement in the most forcible terms of the extreme "high-flying" position, which some high churchmen were unwary enough to endorse, without any suspicion of the writer's ironical intention. The author was soon discovered; and the advertisement offering a reward for his apprehension gives the only personal description we possess of him, as "a middle-sized spare man about forty years old, of a brown complexion and dark brown-coloured hair, but wears a wig; a hooked nose, a sharp chin, grey eyes, and a large mole near his mouth." In this conjuncture Defoe had really no friends, for the Dissenters had already been annoyed by his rather casuistical tracts on the question of occasional conformity, and were as much alarmed at his book as the high-flyers were irritated. He was fined (Feb. 24, 1703) 200 marks, and condemned to be pilloried three times, to be imprisoned indefinitely, and to find sureties for his good behaviour during seven years. It was in reference to this incident that Pope, whose Catholic rearing made him detest the abettor of the Revolution and the champion of William of Orange, wrote in the Dunciad-

Earless on high stands unabash'd Defoe

—though he knew that the sentence to the pillory had long ceased to entail the loss of ears. Defoe's exposure in the pillory (July 29, 30, 31) was, however, rather a triumph than a punishment, for the populace took his side; and his Hymn to the Pillory is one of of the best of his writings in verse. Unluckily for him his condemnation had the indirect effect of destroying his business at Tilbury.

He remained in prison until Nov. 1, 1704, and then owed his release to the intercession of Robert Harley, who represented his case to the queen, and obtained for him not only liberty but pecuniary relief and employment, which, of one kind or another, lasted until the termination of Anne's reign. There is no doubt that Harley, who understood the influence wielded by Defoe, made some conditions. Defoe says he received no pension, but his services were certainly rewarded, and he was a secret agent of the government in 1706 and 1707 in Scotland, working in favour of the Union. In this case he was employed by Godolphin, to whom Harley had recommended him. He wrote in prison many short pamphlets, chiefly controversial, published a curious work on the famous storm of the 26th November, 1703, and started in February 1704 The Review. This was a paper which was issued during the greater part of its life three times a week. It was entirely written by Defoe, and extends to eight complete volumes and some few score numbers of a second issue. He did not confine himself to news, but wrote something very like finished essays on questions of policy, trade and domestic concerns; he also introduced a "Scandal Club," in which minor questions of manners and morals were treated in a way which undoubtedly suggested the Tatlers and Spectators which followed. Only one complete copy of the work is known to exist, and that is in the British Museum. After his release Defoe went to Bury St. Edmunds, though he did not interrupt either his Review or his occasional pamphlets. One of these, Giving Alms no Charity, and Employing the Poor a Grievance to the Nation (1704), is extraordinarily far-sighted. It denounces both indiscriminate alms-giving and the national workshops proposed by Sir Humphrey Mackworth.

In 1705 appeared The Consolidator, or Memoirs of Sundry Transactions from the World in Moon, a political satire which is supposed to have given some hints for Swift's Gulliver's Travels; and at the end of the year Defoe performed a secret mission, the first of several of the kind, for Harley. In 1706 appeared the True Relation of the Apparition of one Mrs. Veal, an excellent example of Defoe's skill as a special reporter. In the course of his service in Scotland he wrote his History of the Union, which appeared in 1709. In this year Henry Sacheverell delivered his famous sermons, and Defoe wrote several tracts about them and attacked the preacher in his Review.

In 1710 Harley returned to power, and Defoe was placed in a somewhat awkward position. He seems, in fact, to have agreed

with the foreign policy of the Tories and with the home policy of the Whigs, and naturally incurred the reproach of time-serving and the hearty abuse of both parties. At the end of 1710 he again visited Scotland. In the negotiations concerning the Peace of Utrecht, Defoe strongly supported the ministerial side, to the intense wrath of the Whigs, displayed in an attempted prosecution against some pamphlets of his on the all-important question of the succession. Again the influence of Harley saved him. He continued, however, to take the side of the Dissenters in the question affecting religious liberty. He naturally shared Harley's downfall; and, though the loss of his salary might seem a poor reward for his constant support of the Hanoverian claim, it was little more than his ambiguous, not to say trimming, position must have led him to expect.

Defoe declared that Lord Annesley was preparing the army in Ireland to join a Jacobite rebellion, and was indicted for libel; and prior to his trial (1715) he published an apologia entitled An Appeal to Honour and Justice which is one of the chief sources for the facts of his life. He was convicted, but was liberated later in the year under circumstances that only became clear in 1864, when six letters were discovered in the Record Office from Defoe to a government official, Charles Delafaye, which, according to William Lee, established the fact that in 1718 at least Defoe was doing political work of an equivocal kind-that he was subediting the Jacobite Mist's Journal under a secret agreement with the government that he should tone down the sentiments and omit objectionable items. He had, in fact, been released on condition of becoming a government agent. He seems to have fulfilled similar functions in Dormer's Letter and the Mercurius Politicus.

The first volume of Defoe's most famous work, the immortal story-partly adventure, partly moralizing-of The Life and Strange Surprizing Adventures of Robinson Crusoe, was published on April 25, 1719. It ran through four editions in as many months, and then in August appeared the second volume. Twelve months afterwards the sequel Serious Reflections, now hardly ever reprinted, appeared. The first two parts were reprinted as a feuilleton in Heathcote's Intelligencer, perhaps the earliest instance of the appearance of such a work in such a form. The story was founded on Dampier's Voyage round the World (1697), and still more on Alexander Selkirk's adventures, as communicated by Selkirk himself at a meeting with Defoe at the house of Mrs. Damaris Daniel at Bristol. Selkirk afterwards told Mrs. Daniel that he had handed over his papers to Defoe. Robinson Crusoe is one of the world's classics in fiction. Crusoe's shipwreck and adventures, his finding the footprint in the sand, his man "Friday," are all inimitably told, but it is the conception of civilized man alone face to face with nature which has made Defoe's great work an imperishable part of world literature. In the same year appeared The Dumb Philosopher, or Dickory Cronke, who gains the power of speech at the end of his life and uses it to predict the course of European affairs.

In 1720 came The Life and Adventures of Mr. Duncan Campbell. This was not entirely a work of imagination, its hero, the fortune-teller, being a real person. There are amusing passages in the story, but it is too desultory to rank with Defoe's best. In the same year appeared two wholly or partially fictitious histories, each of which might have made a reputation for any man. The first was the Memoirs of a Cavalier, which Lord Chatham believed to be true history. Captain Singleton, the last work of the year, has been unjustly depreciated by most of the commentators. The record of the journey across Africa, with its surprising anticipations of subsequent discoveries, yields in interest to no work of the kind.

In 1721 nothing of importance was produced, but in the next year three works of capital importance appeared. These were The Fortunes and Misfortunes of Moll Flanders, The Journal of the Plague Year, and The History of Colonel Jack. Moll Flanders still ranks among the great English novels, and deserves far more notice than it has usually received.

The Journal of the Plague Year, more usually called, from the title of the second edition, A History of the Plague, reads like a